

# TEAC. ESOTERIC

# **SERVICE MANUAL**

# R-9000/V-9000

STEREO CASSETTE DECK

# SPECIFICATIONS

Track System 4-Track, 2-Channel Stereo Hends R-9000 4: 2 Erase, 1 Record and 1 Playback (Rotary)

V-9000 3: 1 Erase, 1 Record and 1 Playback (Combination)

Type of Tape Cassette tape C-60 and C-90 (Philips type)

Tape Speed 4.8 cm/sec. (1-7/8 ips)

Motors 3: 1 DC Serve motor

(for capstan drive)

1 DC motor (for real drive)

1 DC motor

(for ancillary control)

Way and Flutter (WRMS)

0.03 % (R-9000), 0.025 % (V-9000 Frequency Response (Overall) -20 dB 20 - 21,000 Hz Metal Tape

(25 - 20,000 Hz ± 3 dB)

20 - 20,000 Hz CrO, Tape

(25 - 19,000 Hz ± 3 dB)

20 - 18,000 Hz Normal Tape

(25 - 17,000 Hz ± 3 dB) anal-to-Noise Ratio (Overall)

60 dB (NR OFF 3% THD Leve

Weighted) 70 dB (Dolby B In, over 5 kHz),

80 dB (Dolby C In, over 1 kHz), Fast Winding Time Approximately 70 seconds for C-60

Inputs CO-direct/Line: 60 mV, 50k ohms Outputs Line: 0.775 V for load impedance of 50k ohms or more

Headphones: 40 mW (max.), 8 ohms ower Requirements 100/120/220/240 V

AC, 50/60 Hz (General export models)

120 V AC, 60 Hz (U.S.A./Canada)

220 V AC, 50 Hz (Europe) 240 V AC, 50 Hz (U.K./Australia) Power Consumption 28 W

Dimensions (W x H x D) 476 x 149 x 355 mm

(18-5/8" x 5-7/8" x 14")

Weight 10.2 kg (22.5 lbs.) Standard Accessories

Wireless Remote Control Units RC-366 (R-9000), RC-385 (V-9000), Batteries (SUM-3, "AA", "R6" type) x 2, Input-output connection

· Specifications were determind using metal tape except as noted.

· Improvements may result in specifications or features changing without notice.

· Photos and Illustrations may differ slightly from production models.

Dalhy noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol II are trademarks of Dolby Laboratories Licensing Corporation.

### CAUTION

A Parts marked with this sign are safety critical components. They must always be replaced with identical componentsrefer to the appropriate parts list and ensure exact replacement

### 什样

トラック形式	4トラック2チャンネル・ステレオホニック方式
	〈R-9000〉: 消去ヘッド×2、録音×1-再生×1 コンピネーション・ヘッド(ロータリー式
ヘッド構成	(V-9000): 消去ヘッド×1。録音×1・再生×1 コンビネーション・ヘッド(固定式)
使用テーブ	C-60, C-90タイプ カセット・テーブ
テープ速度	4.8センチ ・
	キャプスタン: DC サーボモーター×1
モーター	リ ル:DC モーター×1
	メカニスム: DC モーター×1
	<pre><r-9000>: 0.03%(W.RMS), ±0.055%(W.Peak EIAJ)</r-9000></pre>
ワウ・フラッター	<pre><v-9000> : 0.025%(W.RMS), ±0.045%(W.Peak EIAJ)</v-9000></pre>
周波数特性(総合)	20Hz~21,000Hz(25Hz~20,000Hz±3 dB, EIAJ): ナタル 20Hz~20,000Hz(25Hz~19,000Hz±3 dB, EIAJ): クローム 20Hz~18,000Hz(25Hz~17,000Hz±3 dB, EIAJ): ノーマル
総合SN比	60dB(NR OFF, 3 %THDレベル, WTD) 70dB(ドルビーB NR IN 5 kHz以上) 80dB(ドルビーC NR IN 1 kHz以上)
平 巻 時 間	C-60テープで約70秒
入 カ	CDダイレクト/ライン:60mV(入力インビーダンス50kQ)
出力	ラ イ ン: 0.3V(負荷インピーダンス50kQ以上) ヘッドホン: 40mW (Max) ( 8 Q)
電 源	190V AC, 50/60Hz
消费、電力	28W
外 形 寸 法	472(幅)×149(高さ)×355(奥行)mm
重 量	10.2kg
付 属 品	入出力コード2本(1相)。リモコン(RC-366〈R-9000〉、RC-365〈V-9000〉) 乾電池(単3) × 2

※この仕様は特に表示した項目を除き、当社基準テープを使用して測定したものです。

※仕様および外観は、改善のため予告なく変更することがあります。

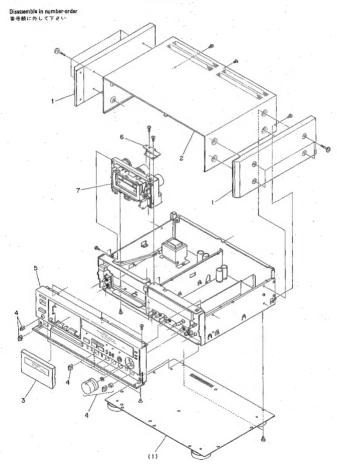
- ドルビーノイズリダクションはドルビーラボラトリー ズライセンシングコーボレーションからの実施権に基 づき製造されています。
- トルヒー、DOLBY及びダブルD記号 図 はトルビーラ ボラトリーズライセンシングコーボレーションの登録 商標です。

### 注·意

△印は安全重要部品です。 交換する時は必ずティアック指 定の部品を使用してください。

# 2 REMOVAL OF EXTERNAL COMPONENTS

外装部品の外し方



# 3 PARTS LOCATION

部品配置図

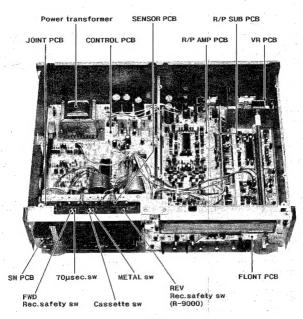


Fig. 3-1

### 4 MECHANICAL ADJUSTMENTS AND CHECKS

### 機構部の調整と確認

### 4-1 PINCH ROLLER PRESSURE

- 1. Press the cassette switch (see Fig. 3-1) up to set the deck to the playback mode.
  - The cassette switch should be pressed up to through-
- 2. Hang the spring scale from the pinch roller arm.
- 3. Extend the spring in the direction shown in the figure until the rotation of the pinch roller stops. then return it gradually so that the pinch roller comes into contact with the capstan shaft again
- 4. Read the value at the moment the pinch roller starts rotating.

Standard values

R-9000 FWD/REV play : 380g-480g (13.407-16.90z) V-9000 Take-up side : 390g-490g (13.86z-17.30z) Supply side : 1709-230g ( 6.00z- 8.10z)

V-9000

Supply side サプライ製

テイクアップ耐

### 4-1 ピンチ・ローラ圧着力

- 1. カセット・スイッチ (Fig.3-1 参照)を上方に押してプ レイ・モードにする。
  - 測定中、カセット・スイッチは上方に押し続けること、
- 2. ピンチ・ローラ・アームにバネ秤を掛ける.
- 3. 秤をピンチ・ローラの回転が止まるまで図示の方向に引 張った後、ピンチ・ローラが再びキャプスタン、シャフ トに接触するよう徐々に戻す。
- 4. ピンチ・ローラが回り始めるときの値を読む。

規格値 R-9000 FWD/REV プレイ: 380g~480g V-9000 テイクアップ側: 390g~490g サプライ側

### R-9000

left pinch roller 左ピンチ・ローラ





: 170g~230g

Measure when in FWD play FWDプレイ時に測定

Fig. 4-1 Pinch roller pressure measurement

### 4-2 TAPE PATH ABJUSTMENT

Note: The following special tools and tapes are required for this section.

Head check iig A (P/N 5736006600)

Head check lig B (P/N 5736006700)

HTY-15D test tape (for Dolby level calibration) HTT-356(or MIT-256) test tape (for frequency response check)

HTI-902 mirror tape (C-90 type)

# 4-2 テープ走行調整

注: この調整を行うためには次の治具、テスト・テープが 必要です

> ヘッド治具A (P/N 5736006600) ヘッド治具A (P/N 5736006700)

テスト・テープ

MTT-150 : ドルビー・レベル・セット用 HTT-356 又は HTT-256 : 周波数特件測定用

MTT-902 : ミラー・テープ (C-90型)

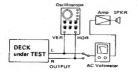


Fig. 4-2 Test setup for azimuth adjustment



Fig. 4-3 Confirming phase relationship

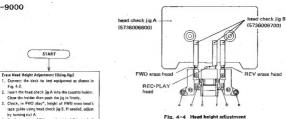
# R-9000

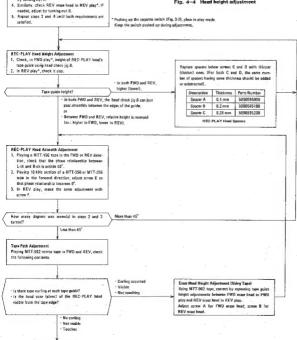
Fig. 4-2.

by turning nut A.

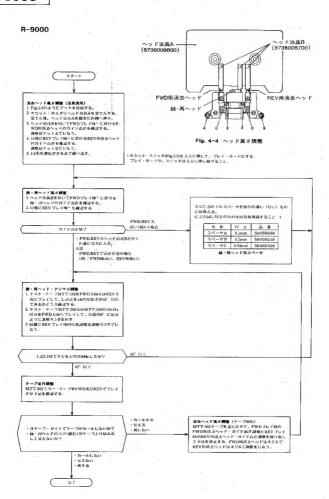
START

COMPLETED





# R-9000



### V-9000

- Note 1: When the record/playback head has been replaced, tighten screws (A), (B), (C) shown in Fig.4-7 until they stop, then slacken them by 1-1/2 turns before starting alignment.
- Note 2: When the erase head has been replaced, install it as shown in Fig.4-8.
- Attach head position alignment jigs A and B, then set the deck to the play mode.
- Fit jig 8 on the tape guide of the record/playback head as shown in Fig. 4-5, then align the height with screw (A) as shown in Fig. 4-7.
- Fit Jig 8 to the head as shown in Fig. 4-6 to check its tilt and align it using screes (8) and (C) shown in Fig. 4-7.
  - Then align the height again with screw (A).
- Repeat alignments in procedure 2 and 3 two or three tlass to align height and tilt. (When adjusted to the standard height, the head should be under the tape guide.)
- Fit jig 8 to the tape guide of the left pinch roller and align the height with nut (E). (The standard height is above the tape guide.)
- Play test tape HTT-902, and adjust not (£) so that
  the lower edge of the tape guide of the record/playback head is in contact with the tape edge, but the
  tape is not curled.
- 7. Adjust the azimuth of the playback head with screw (C) shown in Fig. 4-7 according to item 5-3 (on page 18 ). If the screw is rotated by half a turn or more, turn screw (A) and (B) by the same amount then align from item 8 to correct the height of the tape guide of the record/playback head.
- After alignment is complete, check the tape does not curl over the tape guide by repeating play and stop operations.

- 注 1. 録・再ヘッドを交換したときは、Fig. 4-7 のネジ(A)、 (B)、(C) が止まるまで締め、その位置からそれぞれの ネジを 1.5 回転ゆるめた状態で調整を始めること。
- 注 2. 消去ヘッドを交換したときは、Fig. 4-8 のように取付 ける。
- ヘッドの位置調整治具 A.B をセットしプレイ・モード にする。
- Fig.4-5 のように蜂・再ヘッドのテープ・ガイドに治具 B を当て、Fig.4-7 のネジ(A) で高さを調整する。
- Fig. 4-6 のように治具 B をヘッドに当ててチルトを確認し、Fig. 4-7 のネジ(8),(C) で調整した後、再度ネジ(A) で高さを調整する。
- 上記 2,3 項の調整を 2~3 回繰り返し、高さ、チルト を調整する. (高さの基準はテーア・ガイドの下便とする.)
- 左ピンチ・ローラのテーア・ガイドに治具 8 を当て、 ナット(E) で高さを調整する。(高さの基準はテープ・ガイドの上側とする)。
  - テスト・テーア HTT-902 を走行させ、録・再ヘッドの テープガイドの下側がカールしない程度に当るようナット(E) を調整する。
  - 再生ヘッドのアジマスを 5-3 項 (18 ページ参照)に 従って fig.4-7 のネジ (C) で調整する.
     1/2 回転以上回したときは録・再ヘッドのテープ・ガイ ド高さを合わせるため、ネジ (A)、(B) 6 同量回し再度 6 項に戻り調整をやりなおす。
  - 全ての調整の後、プレイ・ストップを繰り返し、テープ・ガイドでテーブがカールしないことを確認する。

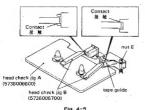


Fig. 4-5

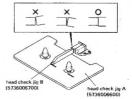
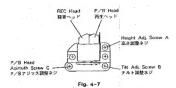


Fig. 4-6



Erase head These should touch 脱続させる事

Fig. 4-8

### 4-3 PHOTO SENSOR ADJUSTMENT (R-9000)

- 1. Connect DC voltmeter as shown in Fig. 4-9.
- Playing in REV direction, magnetic tape portion of test tape consists of elementes in Fig. 4-10(MTT-5551 tape, etc.) adjust RS7 so that a voltage of 3.0 V is obtained at TP.5(\*), TP.6(-).
- In FWD play, similarly adjust R59 for obtaining a voltage of 2.8 V.
- Re-check that voltage is REV play does not change from 3.0 V.
- 5. Set AUTO REVERSE switch in CD position, then play tape in FWD mode from point A in Fig. 4-10. Check that tape motion changes in REV play mode at point B, then changes is FWD play mode at pont A.

### 4-3 フォト・センサ調整 (R-9000)

- 1. DC 電圧計を Fig. 4-9 のように接続する.
- Fig.4-10に示す構成のテスト・テープ(NTI-5511 等) の磁気テープ部分を REV プレイで走行させたとき TP. 5(-),TP.6(-)の電圧が 3.0 V になるよう R57. を調整 する。
- 同様にFMD プレイで走行させ、TP の電圧が 2.8 V に なるよう R59 を調整する。
- REV プレイ時に TP の電圧が 3.0V から変らないことを 再確認する。
- AHTO REVERSE スイッチを 位置にセットし、テープを Fig. 4-10 の A 点より FkD プレイさせる。テープが B 点の位置で REV プレイに反転し、その後 A 点の位置から飛び FkD プレイ動作することを確認する。

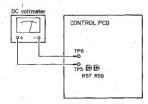


Fig. 4-9 Photo sensor adjustment (1)

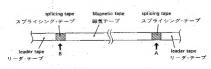


Fig. 4-10 Photo sensor adjustment (2)

### 4-4 REEL TORQUE CHECKS AND ADJUSTMENTS

at each tape transport operation is within the following specified range.

	V-970X	R-919X
Take-up	25 ~ 60 g·cm (0,34 ~ 0,83 oz·inch)	25 ~ 60 g-cm (0.34 ~ 0.83 oz-inch) (FWD/REV)
*Back Tension	0.40 ~ 0.56V	0,40 ~ 0.52 (FWD/REV)
Fast Forward/ Rewind		60 g-cm .22 oz-inch)

### \* Back Tension

- 1. Connect a DC voltmeter between TP.1 and TP.2(GMD) (FWD), TP.3 and TP.4(GND) (REV) on the CONTROL PC board.
- 2. Play the middle part of test tape HTT-5511 and adjust the following so that the voltmeter shows the values in the above table.

R-9000: R31 (FWD), R32 (REV)

V-9000: R31

### 4-5 TAPE SPEED ADJUSTMENT

- 1. Connect a frequency counter to the deck as shown in Flg. 4-11.
- 2. Playing the mid portion of an MTI-111 test tape in FWD and REV directons, adjust the semi-fixed resisttor on capstan motor so that tape speed becomes 3,000 Hz ± 5 Hz. An insulate and nonmetallic flat-head screwdriver should be used for this adjustment.
- 3 In both FWD and REV play modes, check that the following values are obtained at the beginig and at the end of the tape.

Deviation:

3.000 Hz ±45 Hz

Width of deviation: Within 30 Hz

### 4~4 リール・トルク確認及び調整

1. Using a cassette torque meter, check that reel torque 1. カセット型トルク・メータによる測定値が下表の範囲内 であることを確認する.

	V-970X	R-919X
テイクアップ・トルク	25~60 g · cm	25~60 g · cm (FWD/REV)
* バックテンション・トルク	0.40~0.56V	0.40~0.52V (FWD/REV)
早送りトルク(F. F. , REN共 )	90~160g • cm	90∼160g • cm

### \* バック・テンション

- 1. DC 電圧針を、FWD は CONTROL PCB の TP.1 と TP.2 (GND) に、REV は IP.3 と IP.4(GND)に接続する.
- テスト・テープ MI1-5511 の中央付近を再生し、電圧計 の指示が上表の値になるよう調整する.

R-9000 : R31 (FWD), R32 (REV)

V-9000 : R31

### 4-5 テープ速度調整

- 1. Fig.4-11のように間波数カウンタをデッキに接続する.
- 2. HTT-111 テープ・テストの中間部を FMD, REV それぞれ で再生して、テープ速度が 3,000 Hz ±5 Hz になるよ うにキャプスタン・モータの半固定抵抗を調整する。調 整には絶縁された非金属製マイナス・ドライバを使用す ること.
- 3. FMD.REV それぞれに於て、テープの巻始めと巻終りにて 下表の値が得られることを確認する、

価差: 3,000 HZ ±45 Hz **空動**市: 30 Hz Di内

### 4-6 WOW AND FLUTTER CHECKS

Note: In both FWD and REV play modes, these measurements should be made at the beginning, middle and the end of the tage.

### 4-6-1 PLAYBACK HETHOD

- 1. Connect a wow and flutter meter to the deck as shown in Fig. 4-11.
- Load a TEAC HTY-111 test tape or equivalent and, in FMD and REV directions, play it to measure the wow and flutter value.
- 3. Specifications are shown below.
  - 0.055% HRMS (R-9000)
  - 0.050% WRHS (V-9000)

### 4-6-2 RECORD/PLAYBACK HETHOD

Note: When measuring with this method, the recorded section should be played back repeatedly to obtain an average value.

Be careful not to read the meter for those parts of the tape in which wow and flutter components in recording and playback cancel each other.

- Load a blank TEAC HYT-5511 test tape or equivalent and record a 3,000 Hz signal in FMP (REV) directon.
- Rewind (fast forward) the rape to the beginning of the recorded secton, and play it in the FWD (REV) direction.
- 6. The wow and flutter should not be more than specified.

  Specificaton: 0.3% RHS (R-9000)

  0.25% RMS (V-9000)

### 4-6 ワウ・フラッタ確認

注意: FMO,REV 共, テープの参始め、中間、巻終りでそれ ぞれ測定する。

### 4-6-1 再生法

- Fig.4-11 のようにワウ・フラッタ・メータをデッキに 接続する。
- TEAC HIT-111 テスト・テープ又は相当品を装てん後、 FMD 及び REV の両方向で再生しワウ・フラッタ値を測 定する。
- 3、 規格 0.055% WRMS (職感補正) ········R-9000 0.050% WRMS (酸感補正) ·········V-9000

### 4-6-2 斜面法

- 注塞: 本測定法の場合,録音した部分を規度かストップ、 再生を維返し、大きく振れる平均的な信を摂む.録 音した時と再生した時のワウ・フラッタ成分の位相 がキャンセルしたところを讃まないようにする.
- ブランク・テスト・テープ TEAC HTT-5521 又は相当品を装てんし、3,000 HZ 信号を FWD(REV) 方向で録音する。
- 5. テープの録音した部分を巻戻して FWD(REV) 方向で再生
- ワウ・フラッタ値は下記の値から外れないこと。 規格:0.3XRMS (非聴恋補正) (R-9000)
   0.25XRMS (非聴恋補正) (Y-9000)

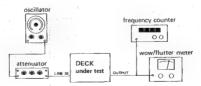


Fig. 4-11 Connection for tapespeed, wow and flutter

### 4-7 LUBRICATON

Lubricaton is only required when parts are replaced.

For this purpose, use the oil and grease specified below.

- Oil: TEAC TZ-255A motor oil (from TEAC TZ-255 oil kit), Hobil D.T.E. Oil light, or equivalent Grease: ORE-LUBE G1/3 or equivalent
- Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free and) of the flywheel, then insert the shaft into the. capstan housing.
- Apply a suitable amount of light grease to the well of the fivwheel bearing.

### 4-7 注油

注油は都品が交換される時のみ必要です。 注油には下記に明 示するオイルとグリースを使用します。

> オイル: TEAC TZ-255A モータ・オイル (TEAC TZ-255 オイル・キッドから) モービル B・T・E オイル・ライト、または相当品

グリース: オア・ループ G1/, または相当品

- フライホイル軸の先端から約 1/3 下った軸面へ、注油 器にてオイル 1滴を注油後、フライホイル軸をキャプス タン・ハウジングへそう入する。
- 連量のグリースをフライホイル・ベアリング受けへつける。

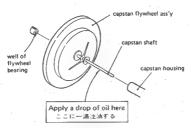


Fig. 4-12

### 4-8 VOLTAGE CONVERSION

(FOR GENERAL EXPORT MODELS)

ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE CHANGES.

- Locate the voltage selector on the rear panel of the deck as shown in the illustration.
- Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

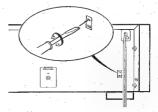


Fig. 4-13

# **ELECTRICAL CHECKS AND ADJUSTMENTS**

### アンプ部の確認と調整

### 5-1 PRECAUTIONS

- 1. Since this deck has an automatic tape selector, be sure to use test tapes that have tape position datecting holes.
- 2. Before performing adjustments and checks, clean and demagnetize the entire taps path, then check taps motion condition
- 3. Make sure the deck is properly set for the voltage In your locality.
- 4. In general, adjustments and checks are made in the order of L-ch then R-ch. Double RFF: Nos. such as R129/R229 indicate L-ch/
- R-ch 5. The AC voltmeter used in the procedures must have
- an input impedance of 1  $M\Omega$  or more.
- 6. 0 dB is referenced to 0.775 V.

### 5-1 微值

- 1. 本機はテープ・セレクタ自動検出機構になっていますの でテスト・テープは必ずテープ・ボジション検出孔のあ るものを使用してください.
- アンプ部の調整のまえに、消去ヘッド、録・再ヘッド。 テープ走行部分それぞれを充分消職し、クリーナ液で清 構した後、テープの走行状態を確認してください。
- 3. 特に指定の無い限り、鋼整及びチェックは L-ch, R-ch の順序で行ってください。 尚、R129/R229 のように記されている回路番号は、L-ch/ R-ch を示します。
- 4. レベル計は入力インピーダンス 1 HΩ以上のものを使用 してください.
- 5 0 dR = 0 775 V

### 5-2 TEAC TEST TAPES

HTY-150C : For Doiby level calibration

HTT-25707 : For R - P head azimuth adjustment and

playback frequency response check

HTT-15000 : for playback S/N check (Dolby NR B.C)

HTT-905 : For quick sensor adjustment (R-9000 only) H7T-5571 : For METAL record test

MTT-5561 : For CrO2 record test MTT-5511 : For MORHAL record test 5-2 TEAC テスト・テープ

MTT-150C : ドルビー・レベル・セット用

HTT-25707: 鏡・再ヘッドのアジマス調整、及び再生間波数

**给件测定用** 

MTT-15000: 萬牛 S/K (Dolby NR 8.C) 測定用

MTT-905 : クイック・センサー調整用 (R-9000のみ)

MII-5571 : HEIAL テープの経音系テスト用

MTT-5561 : Cr 02 テープの録音系テストJII

MTT-5511 : HORHALテープの録音系テスト用

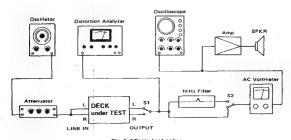
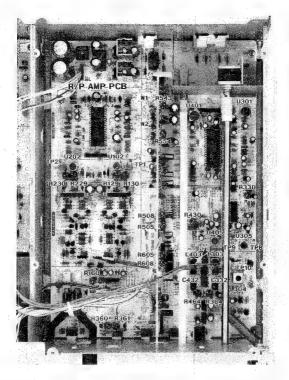


Fig. 5-1 Basic test setup



R129/R229	Playback dolby level
R130/R230	Playback EQ
R160	CPS level
R330/R430	Record level
R360	Record bias(CrO <sub>2</sub> )
R361	Record blas(NORMAL)
R364/R464	Record bias
R505/R605	Meter level

Peak level
Built-in OSC(10kHz level).
Built-in OSC(400Hz level)
Step-up coll
Bias OSC
Bias trap(Playback)
MPX filter
Bias trap(Record)

Fig. 5-2 Check and adjustment points on R/P AMP PCB

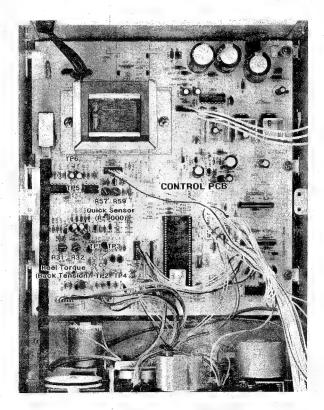


Fig. 5-3 Check and adjustment points on CONTROL PCB

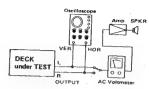


Fig. 5-4 Test setup for azimuth check



Fig. 5-6 (V~9000)

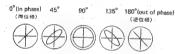


Fig. 5-7 Confirming phase relationship

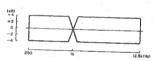


Fig. 5-8 Playback frequency response

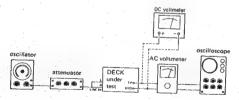


Fig. 5-9 Test setup for test point check

### 5-3. PLAYBACK PERFORMANCE 再生系

Deck settings Hode AUTO HOWITOR SW. PLAY : TAPE TAPE DOLBY NR SW. HPX FILTER SW. 0FF CAL ON SW. OFF CD DIRECT SW. OFF

TEAC test tapes :

TRM test tapes:

HTI-150C: For Bolby tevel calibration
HTI-25707: For R-P head azimuth adjustment and
playback frequency response check
HTI-5571: For S/N check for 70 usec (HETAL)
HTI-15000: For S/N check for 120 usec (HORMAL)
HTI-15000: For S/N check for 100 BY MR 8, C

ITEN 調整項目	SEITING 説 定	IMPUT SIGNAL 入力信号		IST CHECK) 注 <b>相</b> 所		REHARKS 備考
1. REC - PLAY head az lauth 録・再ヘッド アジマス	Connection : Fig.5-4	HTT-25707 (8kHz)	Azimuth of R・P 録・再へ アジマス R-9000 V-9000	head ッドの 興整ネジ Fig. 5-5		Refer to Fig. 5-7
2. Playback Dolby level 再生ドルビー レベル	Same as above 同上	HTT-150C	R129/R22	9	TP.3/TP.4 : -10 dB (245mV)	
Playback     output level	Same as above 同上	NTT-150C	R-9000 Check V-9000	OUTPUT (L/R) : FMD -1 ±1 dB (815~775m REV -1 ±1.5dB (581~820m	V) .	
再生出力レベル				V-9000	OUTPUT (L/R) : FWD -1 ±1 d8 (615~775m	V)
4. Heter level setting メータ・レベル セット	Same as above 国上	HTT-150C	R505/R60	5	PEAK LEVEL meter (L/R) :	
5. Playback frequency response 再生周波数特性	Same as above 阿上	HTT-25707	R130/R23	0	OUTPUT (L/R): Equal output level between and 1 kHz 8 kHz と 1 kHz の出力が等 よう調整	
			Check		Standerd 規格:Fig.5-8	
	Same as above 同上	MTT-5571 ( 70 µsec) MTT-5511 ( 120 µsec) Play back the leader			OUTPUT (L/R) : S/N 45 d8 min. (120µ) 46 d8 min. (70µ)	
	DOLSY NR : OFF	tape portion リーゲーテープ部を 再生	CHOCA		The reference level of S/N is output in 3. 3 項の出力を基準レベルとする	the .
6. Playback S/N ratio 再生 S/N 比	Same as above Fig.E. DOLBY MR : OFF→ B→ C	HTT-15000	Check	the S/M: played be MTT-1500 値。1 (元) DOLB	L/R): f variation in S/M withe respectable ** when the MT7-15000 si kak with DOLBY MR OFF. O を DOLBY MR OFF で阿生した時代 付する S/M 変化量 MR B : 8.50日 pr MOFE f MR B : 8.50日 pr MOFE f MR C : 17dB or more	ignal is
	1. 1.			(	The reference level of S/N is to output in 3. M の基準レベルは 3 項の出力	he

# 5-4. MONITOR PERFORMANCE モニター系

Deck settings

RECORD/PAUSE Hode AUTO HONITOR SW. : SOURCE DOLBY MR SW.
HPX FILTER SW.
CAL ON SW.
CD DIRECT SW. OFF OFF OFF

OFF

REC LEVEL cont. LEVEL cont. BALANCE cont.

: Haximun

: Center

TEAC test tapes

: HTT-5571 (HETAL)

	ITEM	SETTING 級 定	UNPUT SIGNAL 入力信号	ADJUST (or CHECK) 河登研所	HEASURING POINT, RESULT 測定個所・調整値	REHARKS 備 考
7.	Min. LIME input level ライン 最小入力レベル	Connection : Fig.5-1 REC LEVEL cont. : Maximum	LINE IN (L/R) : 400 Hz / -19 dB (86.9 mV)	Check	OUTPUT (L/R): -1 ±3 d8 (489 mV ~ 975 mV)	
			LEME IN (L/R) : 400Hz/-9d8(275mV)	REC LEVEL cont.	OUTPUT (L/R) : -1 dB (690 mV)	
8.	Specified LIME input level LIME 規定入力 レベル	Connection : Fig. 5-1	BALANCE cont. チャンネル間レベ ・After adjusting, (Specific positi	ル差のある場合は BAI do not move the REG on)	etween channels, adjust using t AMCE cont. で課題する。 CLEVEL cont. and BALANCE cont cont. を動かさないこと、(規度	
9.	CD DIRECT	Connection : Fig.5-1	LINE IN (L/R) :	Check	OUTPUT (L/R) : -1 ±1 dB (615 mV ~ 775 mV)	
	CD DIRECT 入力レベル	CD DIRECT SW. : OW	400Hz/-9dB(275mV)	QFF.	s complete, set the CO DIRECT DIRECT sw. を OFF に戻すこと.	<b>™</b> to
10.	Heter_level メータ・レベル	Connection : Fig. 5-1	LINE UN (L/R) : 400Hz/-9dB(275mV)	Check	PEAK LEVEL meter (L/R) : DO (-1 dB)±1 dB	
11.	Peak level ピーク・レベル	Connection: Fig.5-1	LINE IN (L/R) : 400HZ/+6dB(1.55V)	R508/R608	PEAK LEVEL meter (L/R): Press'the DISPLAY and CLE buttons alternately, then so that the meter reads ** DISPLAY 知と CLERNIZを交互 メーター表示が +5dB になる	adjust SdB. に押し、
12.	PHONES output level PHONES 出力レベル	Connection : Fig. 5-10 PHONES LEVEL cont. : Hax.	LEME IN (L/R) : 400Hz/-9dB(275mV)	Check	PHONES: -2 d8 ±3 d8 (436mV~669mV)	3Ω load
				U301/U401	OUTPUT (L/R) : -31 dB (21.8mV) or less	
13.	HPX fifter HPX フィルター	Connection : Fig.5-1 MPX FILTER sw. : 000	LINE IN (L/R) : 19kHz/-9dB(275m/)	to OFF.	ng is complete set the HPX FII FILTER sw. を OFF に戻すこと	
14.	Bias osc バイアス発振器	Connection : Fig.5-11	No signal 無信号	1304	TP. 10 : R-9000 : 150 kHz ( ±2 V-9000 : 210 kHz ( ±2	

ITEH 調整項目	SETTING 設定	EMPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT, RESULT 測定個所 調整値 備 考
15. Step-up coll ステップアップ コイル	Same as above 岡 止	Same as above	L303/L403	L-ch: teft lead of C332 C332 の左リード R-ch: Right lead of C432 C432 の右リード
				Set to the maximum negative voltage DC出力が一個最大になるよう調整
16. Bias trap (REC) バイアス・トラ ップ (舞音関)	Connection : Fig. 5-9 Tape : MYT-5571 (METAL) Hode : RECORD	No signal 無信号	U305/U405	TP.8/TP:9: Hinimum reading パイアス識れ最小
17. Built-in oscilator 内部発展器	Tape : No load 不變 Hode : STOP HI shorting (Fig. 5-2) H2 shorting (Fig. 5-2)	No signa( 無信号	reaches the U ディスプレイカ (400Hz) を調整 ・Adjust R543 ( reaches the B	IOOHIZ) so that the display indication 「MEY ■ Wark. 「LEVEL ▼マークまで点灯するよう R544 する。 IOOHIZ) so that the display indication IOO A wark. 「BLAS ▲ wark. 「BLAS 本 Wark. 「BLAS 本 Wark.」
			After adjustment ( 調整接出 H1, H2 对	complete, open W1 and W2. ーアンにする.

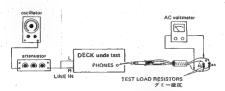


Fig. 5-10 Test setup for PHONES check

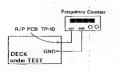


Fig. 5-11 Test setup for bias osc, frequency adjustment

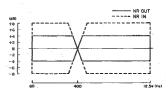


Fig. 5-12 Overall frequency response (NR OUT)

### 5-5. RECORDING PERFORMANCE 録音系

LEVEL cont. AUTO HONITOR SW.

Deck settings

DRAS SECTIONS

REC LEVEL cont. Specified position 别方的证据(Item 82 - 22 )

REC LEVEL cont. Specified position 别方的证据(Item 83 )

BAIAMCC cont. Specified position 别方的证据(Item 83 )

BAIA Scott. Center 00.BV III sw.

MPX FILTER SW. CAL ON SW. : OFF

: OFF

: Center

: TAPE

TEMC recording test tapes MIT-5571 : For METAL MIT-5561 : For CrO<sub>2</sub> MIT-5511 : For MORMAL

	ITEN 実施項目	SETTING 設定	IMPUT SIGNAL 入力信号	AILJUST (or CHECK) 調整個所	HEASURING POINT, RESULT 瀬定弧折・調整値 衛 考
18.	Record bias -1 仮パイアス セット	Connection : Fig. 5-1 Tape : HTT-5571 (METAL) Hode : REC / PLAY	LIME IN (L/R): 400 Hz and 10 kHz alternately. 交互信号 -42 dB (6.15 mV)	R364/R464	OUTPUT (L/R); Equal output level between 400 Hz and 10MHz. 400Hz と 10MHz の練得出力が等しく なること
	Record bias -2 バイアス セット	Connection : Fig. 5-1 Tage : HTT-5511 (MORMAL) Mode : REC / PLAY	LINE IN (L/R): 400 Hz and 団 kilz alternately 交互信号	R361	OUTPUT (L/R): Perform adjustment so that the L-ch and R-ch levels of the 400Hz and 100Hz Sipmla ner averaged. 400Hz と 10HHz の L-ch, R-ch の各 レベルが平均的場合なるよう興整
			-42 dB (6.15 mV)	R364/R464	OUTPUT (L/R): Re-adjust equal output level between 400 Hz and 10kHz. 400Hz と 10kHz の縁再出力が等しく なるよう再調整する。
20.	Record bias -3 バイアス セット	Connection: Fig.5-1 Tage: HTT-5561 (CrO <sub>2</sub> ) Kode: REC / PLAY	EINE IN (L/R): 400 便 and III kHz alternately 交互信号 -42 d8 (6.15 mV)	R360	OUTPUT (L/R): Perform adjustment so that the L-ch and R-ch levels of thm 400Hz and 10NHz signals are averaged. 400Hz と 10NHz の L-ch, R-ch の各 レベルが平均的になるよう調整
		Connection : Fig.5-1 Tape : NTT-5511 (NORMAL) Node : REC / PLAY		R330/R430	OUTPUT (L/R) : -4 MM ( 489 mV )
21.	Record level 録音レベル	DOLBY NR : DFF/B/C Tape : HTT-5571 (METAL) Tape : MTT-5581 (CrO <sub>2</sub> ) Tape : MTT-5511 (NORMAL)	LINE IN (L/R) : 400 Hz / -12 dB (195 mV)	Check B0	UT (1/R) : LBY MH OFF -4 dB ±2 dB ( 338 mV ~ 615 mV ) : LBY MH B/C -4 dB ±3 dB ( 346 mV ~ 690 mV )
22.	Total harmonic distortion 総合歪率	Connection: Fig.5-1 DOLBY NR: OFF Tape: MTT-5571 (METAL) Tape: HTT-5561 (CrO <sub>2</sub> ) Tape: MTT-5511 (NORMAL)	LINE IN (L/R) : 400 Hz / -12 dB (195 mV)	Check	OUTPUF (L/R): Distortion 歪峰 NETAL: 2.0 % or less CFG2: 2.0 % or less NORMAL: 1.5 % or less
23.	Blas trap			U102/U202	IP.1 /IP.2 : Minimum bias leakage バイアス漏れ 最小
	(Playback) バイアス・トラ ップ(再生順)	Connection ; Fig.5-9 Hode : REC / PLAY	No signal 無信号	Check	OUIPUT (1/R): Bias leakape バイアス編化 -40 dB (7.75 mV) or less PEAK LEVEL meter: Do not lit 点灯しないこと

	ITEM 調整項目	SETTING 殺 定	INPUT SIGNAL 入力信号	ABJUST (or CHECK) 調整個所	MEASURING POINT, RESULT 測定個所: 調整值 備 考
24.	Overall frequency response 鋒再周波數特性	Connection: Fig.5-1 Tape: MTY-5571 (METAL) Tape: MTY-5561 (CrO <sub>2</sub> ) Tape: MTY-5511 (MORMAL)	LINE IN (L/R) : 63Hz~12.5NHz / -42 dB (6.15 mV)	Check Cr	TI (L/R): TALL DOLBY NR B, C Spec. Fig. 5-12 TO2 DOLBY NR B, C Spec. Fig. 5-12 TRIMAL DOLBY NR OFF Spec. Fig. 5-12
25.	Dverail S/N ratio 総合 S/N 比	Connection: Fig.S-1 Tabe: MTT-5571 (METAL) Tabe: MTT-5581 (FOR2) Tape: MTT-5511 (MORMAL)	llő signal 無信号	Check	OUTPUT (L/R):  METAL 46 dB min.  C702 46 dB min.  MORMAI. 45 dB min.  400NIz/-148 (690mV) is the reference Livel:  基準レベル社 400NIz/-148 (690mV)
		Tape : MIT-5511 (NORMAL) Hode : REC / PLAY CAL == sw. : ON LEVEL cont. : Center BIAS cont. : Center	Mo signal 無信号	Check	PEAK LEVEL moter indication : £EVEL ▼ ±4 dot BIAS ▲ ±5 dot
26.	Built-in osc. (BIAS, LEVEL)	Tape : MTT-5511 (MORMAL) Mode : REC / PLAY CAL CN sw. : DN LEVEL cont. : Center Fully "-" to fully "*"	NO signal 無信号	1 1	K LEVEL meter indication : evel variation between portion "-" an - portion - と "-" 間かしへい可変幅 - 6 dot min. 6 ドット以上
		Tape : NYT-5511 (NORMAL)  Kode : REC / PLAY  CAL OM sw. : ON  BIAS cont. : Center  Fully "-" to fully "+"	No signa! 無信号	Check L	K LEVEL meter indication : evel variation between portion "-" an "" portion -" と "" 間のレベレ可変幅 S dot min. 5 ドット以上
	Erase efficiency	Connection: Fig. 5-1 but engage 1-kHz filter 1-kHz フィルター使用 Tape: MIT-5571 (HETAL)	LINE IN (L/R) : 1 kHz /+1 dB (869mV)	Check	OUTPUT (L/R) : 63 dB min. ratio
	消去効果	Record a 1-kHz signal. Erase between the 1-kHz portion an 録音部分を再生した時のレベル	d the erased portion.		nd and play to fined the difference D出力レベルとの差を満定。
20	REC HUTE	Same as above 周 上	Same as above 同上	Check	OUTPUT (L/R) : 65 dB min. ratio
	function REC HUYE 効果	Record a 1-kHz signal Push 1-kHz portion and the "rec w 1-kHz 信号を録音し、途中で R このテープを再生し、 1-kHz	ute" portion. EC MUTE 釦を押して無信	号録音部分を作る。	to find the difference between the
	Channe!	Same as above 同止	LINE IN (L/R): L-ch 1 kHz/-9dB (275mV) R-ch No signal	Check	OUTPUT (R) : 30 dB min.
チャ	separation チャンネル セパレーション	Set the deck to record mode. (L-ch) and "no signal " por 経音後、再生して 1-kHz 録音 ・Change the above conne L-ch と R-ch を入れ	tion (R-ch). 部分 (L-ch) と無信号録 ction and check revers	音部分 (R-ch) との e operation also.	between the 1-kHz recorded portion 出力レベル差を測定。

ITEM 調整項目	SEITING 設定	IMPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT, RESULT 測定個所 - 調整值	REMARKS 備 考
30. Adjuscent track	Connection: Fig. 5-1 but do not connect LIME IN (L) and OUTPUT (L). L-ch の入出力の複雑不要	LINE IM : L-ch No signal R-ch 125Hz/-9dB (275mV)	Check	OUTPUT (R) : 40 dB min. ratjo	
crosstalk トラック間 クロストーク	Record a 125-liz signal on R- Check leakage level against II-ch トラックに125 liz を録 次に、テープを反転して再生し	the output reference o 音し、その再生出力を基	f previously recon 準レベルとする.	rded portion.	

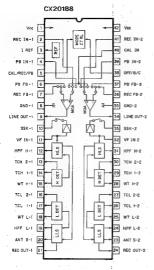
### 5-6. CONTROL PERFORMANCE 制御系

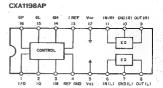
TEAC test tape
MTT-150C : For CPS level adjustment
MTT-905 : For guick sensor adjustment

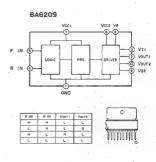
			, nı	1-905 : For quick sensor adj	us then t
M整项目	SETTING 股 定	IMPUT SIGNAL 入力信号	ADJUST (or CHECK) <b>阿拉伯外</b>	MEASURING POINT, RESULT 測定個所 調整値	REMARKS 備 考
	Connection : Fig.5-9 .	HIT-150C	R160	TP.5 : -20 d8 (77.5mV)	
31. CPS level CPS レベル (R-9000)	At the center of the MTI-150C the FWD direction. REW in the ever is a higher level (exclu MTI-150C のチーン中央部分で、 時の TP.5 の出力レベルを測定 dB になるように R180 を調整す	FWD direction, FF in 1 ading the maximum and m FWD 方向の FF, FWD 方 する 4 つの測定値の内	the REV direction. tinimum levels ) am で内の REV, REV 方向	Perform adjustment so that th long four measured values is - の FF、飛び方向の飛ぶ、各 (	ne which- 20 dB. PS モード
	Connection : Fig. 5-9	MTT-1500	R160	TP.5 : -20 dB (77.5mV)	
32. CPS level CPS レベレ (V-9000)	At the center of the HTI-150C Perform adjustment so that the HTY-150C のテープ中央部分で、 を調整する。	whichever is a lower	level is -20 dB.		5 € R160
	Connection : Fig.5-9 Hode : REV PLAY	HTT-905	R57	DC voitage between TP.5 (+) -TP.6 (GMD) : +3.0 V -TP.5, TP.6(CNO) 間電圧: +3	
33. Quick sensor クイック センサー (R-9000 only)	Connection : Fig.5-9 Hode : FWD PLAY	HTT-905	R59	DC voltage between TP.5 (+) TP.6 (GMD): +2.8 V TP.5, TP.6(GMD) <b>阿亞</b> 庄: +2	
	Connection : Fig. 5-9 Hode : REV PLAY	HTT-905	Re-check 再チェック	DC voltage between TP.5 (*) TP.6 (GND) : +3.0 V TP.5, TP.6(GND) 間電田: +3	

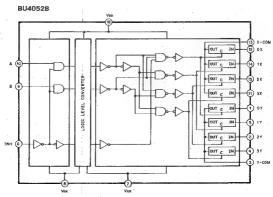
# **5 IC BLOCK DIAGRAMS**

ICブロック・ダイヤグラム

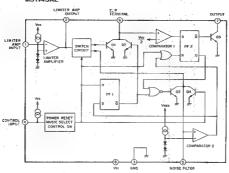




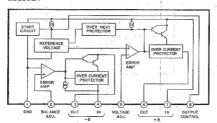




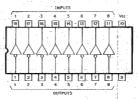
### M51143AL



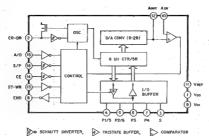
### M5230LA



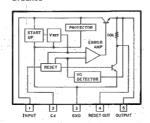
### LB1240



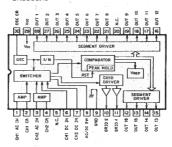
### LC7910



### L78LR05



### **BA6800AS**



# PARTS LISTS SECTION

### NOTES

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings contained in this manual.

- · Parts marked with \* require longer delivery time.
- A Perts marked with this sign are safety critical components.
   They must always be replaced with identical components refer to the TEAC Parts List and ensure exact replacement.
- · PC boards shown viewed from parts side.

### 注意

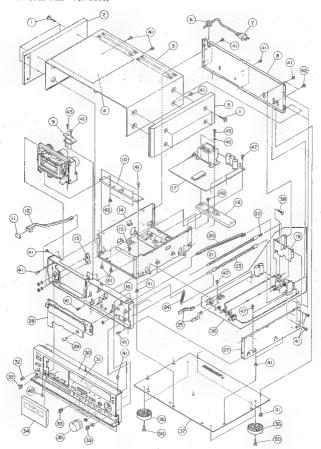
標準の抵抗:コンデンサーは省時してあります。回路図及び基板図を参照してください。

- 1、プリント基板図は部品面が示されています。
- 2. \*印の部品は納期が若干かかります。あらかじめご了承 ください。
- Δ印は安全規格重要部品です。交換するときは必ずティアック指定の都品を使用して下さい。

# 7 EXPLODED VIEWS AND PARTS LIST

分解図とパーツ・リスト

EXPLODED VIEW - 1 (R-9000)

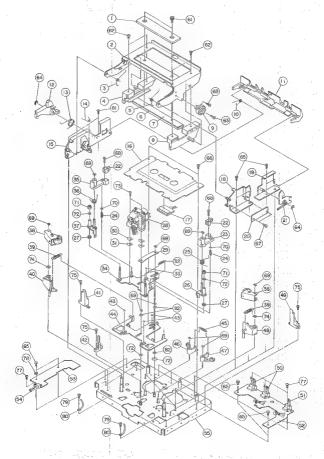


### EXPLODED VIEW-1 (P-9000)

REF.	NO. PARTS NO.	DESCRIPTION	REMARKS
1- 1 1- 2 1- 3 1- 4 1- 5	*5801342700	SCREM ASSY, SIDE BOARD BOARD (L), SIDE BONNET (B) SHEET (C), DAMPER BOARD (R), SIDE	
I- 6 I- 7	△ *5350015600 △ *5350010700 △ *5350011700 △ *5128047000 △ *5350008300 *5801342600 *5801342600 *5801342100	CORD, AC [1] CORD, AC [US, GE] UL SPT-2 CORD, AC IEI CEE CLASS-2 CORD, AC IEI CEE CLASS-2 CORD, AC INISI SAA PAREL, RERAR IEXCEPT GE! FANEL, RERAR IEXCEPT GE! FANEL, RERAR IGE] FOLDER, MECANINISM (UPPER)	
- 1  - 2  - 3  - 4  - 4	5801340500 5801356100 *5801340400 *5200305110 *5801343000	CUP (B), POWER (TEAC) CUP (G), POWER (ESOTERIC) JOINT, POWER SWITCH SWITCH POW ASSY	Ref. pages 40 & 43
1-16 1-17	*5200305250 *5200305260 *5200305270 *5200305280 *5200305290 *5801341500 *5801342300	CHASSIS, FRONT CONTROL POB ASSY [J] CONTROL POB ASSY [US] CONTROL POB ASSY [US] CONTROL POB ASSY [E] CONTROL POB ASSY [E] CONTROL POB ASSY [E] FOR ASSY [UK] SPACER, TRANSFORMER HOLDER, VOLUME ROO, KNOB (C)	Ref. pages 42 & 45 Ref. pages 42 & 45 Ref. pages 42 & 45 Ref. pages 42 & 45 Ref. pages 42 & 45
-21  -22  -23  -24  -25	*5801362200 *5801341600 *5801362100	ROD (N), VOLUME SPRING (2), EARTH ROD, VR SPRING (1), EARTH KNOB, JOINT (TEAC) KNOB, JOINT (6) (ESOTERIC)	
1-26 1-27 1-26 1-29	*580 342400 *52003050 0 580 34 100 580 356400	R/P AMP PCB ASSY CHASSIS (A), SIDE FRONT PCB ASSY NNOB C (B) (TEAC) FRONT PAMEL R (B) ASSY (TEAC) FRONT PAMEL R (B) ASSY (TEAC)	Ref. pages 41 & 43 Ref. pages 42 & 46
1-31 1-32 1-33 1-34 1-35	5801341000 5801358400 5801340900 5801357000 5801355600 5801357600	KNOS (B), REVERSE MODO (TEAC) KNOS (G), REVERSE MODO (ESOTERIC) KNOS, SELECTOR (TEAC) KNOS (G), SELECTOR (ESOTERIC) CASSETTE RID (R) ASSY (TEAC) CASSETTE RID (R) ASSY (ESOTERIC) MASTER KNOS (B) ASSY (TEAC)	
1-36 1-38	*5801343100 *5801342500 *5787060700	INSULATOR ASSY PLATE, BOTTOM	
Con	finued on page 31		

# R-9000

### EXPLODED VIEW - 2(R-9000)



### EXPLODED VIEW-2 (R-9000)

REF. NO.	PARTS NO.	DESCRIPTION		REMARKS	1.5
2- 1 2- 2 2- 3 2- 4 2- 5	*5801344400 *5801357100 *5801345000 *5801344800 *5801344600 *5801344900	PLATE, TOP (TEAC) PLATE (6), TOP (ESOTERIC) CASSETTE HOLDER ASSY SPRING (L), HOLDER HOLDER (L) SPRING (R), HOLDER			
2- 6 2- 7 2- 8 2- 9 2-10	*5801344200 *5801363300 *5801343600 *5801344700 5801354000 *5800755800	PAD (U) [J] PAD (S) [EXCEPT J] SPACER HOLDER (R) DAMPER, 1C72-L SPRING, PRESS ARM			
2-11 2-12 2-13 2-14 2-15	*5800595602 *5800768701 *5800616300 *5800616400 *5801345600	ARM, SWITCH PRESS LEVER, CASSETTE LOCK SPRING, LOCK LEVER SPRING, EJECT PLATE PRESSUR SWITCH ARM BRACKET (L) ASSY	ε		
2-16 2-17 2-18 2-19 2-20	*5801343701 5225025500 *5801346100 *5801345400 *5210238100	PANEL, CASSETTE LED, SLF601C (ORG) HOLDER BRACKET PLATE ASSY BRACKET (R) ASSY JOINT PCB		Ref. page 40	
2-21 2-22 2-23 2-24 2-25	*5801344500 5378905600 *5801343500 *5800615700 *5800615600	LEVER (R), LOCK GUIDE, ERASE HEAD BASE (R), ERASE HEAD SPRING, ERASE HEAD GUIDE SPRING (R), ERASE HEAD ARM			
2-26 2-27 2-28 2-29 2-30	5800618800 *5800615300 5801350300 *5800595500 *5800595000	ARM ASSY (R), ERASE HEAD SPRING, ERASE HEAD HEAD HOLDER ASSY SPRING, PRESSURE SPACER (A), O.IMM			
2-31 2-32 2-33 2-34 2-35	*5800595100 *5801005700 5540055000 *5800618101 *5801343400	SPACER (B), 0.2MM SPRING, HEAD BASE STEEL BALL 2 HEAD BASE ASSY BASE (L), ERASE HEAD			
2-36 2-37 2-38 2-39 2-40	*5800615500 *5800618700 5800618900 5800739100 5800596700	SPRING (L), ERASE HEAD ARM ERASE HEAD ARM SUB ASSY PINCH ROLLER ARM ASSY SPRING, PINCH ROLLER ARM (L), PINCH ROLLER			
2-41 2-42 2-43 2-44 2-45	5800595701 5228009900 5540056000 5800618202 *5800616100	GUIDE (L), CASSETTE PHOTO SENSOR, 59027-4 STEEL BALL 3 SLIDER ASSY SPRING, BRAKE			
2-46 2-47 2-48 2-49 2-50	*5800620000 *5800619900 5800596800 5800595801 5301754100	BRAKE ARM (L) ASSY BRAKE ARM (R) ASSY ARM (R), PINCH ROLLER GUIDE (R), CASSETTE SWITCH, LEAF LSA-2125AUS			
2-51 2-52 2-53 2-54 2-55	5301754300 *5200182400 *5210182500 5301754200	SWITCH, LEAF LSA-1125-7AUS SENSOR PCB ASSY JOINT PCB SWITCH, LEAFLSC-1223-39AUS MECHANISM CHASSIS ASSY		Ref. pages 40 & 47 Ref. page 40	

Parts marked with \*require longer delivery time.

### EXPLODED VIEW-2 (R-9000)

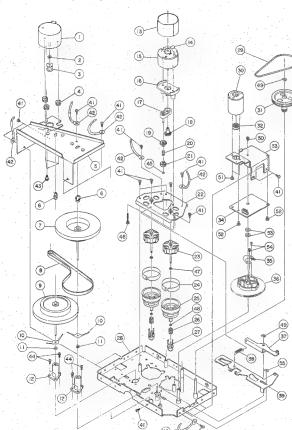
REF. NO.	PARTS NO.	DESCRIPTION		REMARKS
	*5781713003 *5781162606 *5783032004 *5786003000 *5783002605	SCREW, HEX CUP M3X3 (BLK NI) SCREW, B.T. #2 M2.6X6 (BLK NI) SCREW, BIND S-TITE M2X4 WASHER, E-RING E-3 (JIS) SCREW, PAN S-TITE M2.6X5		
2-66 2-67 2-68 2-69 2-70	*5780022605 *5783002605 *5780022008 *5786002000 *5785302400	SCREW, BIND M2.6X5 (BLK NI) SCREW, PAN S-TITE M2.6X5 SCREW, BIND M2X8 (BLK NI) WASHER, E-RING E-2 (JI5) WASHER, POLYSL, 2.1X5X025T		
2-71 2-72 2-73 2-74 2-75	*5781952600 *5785313000 *5780002006 *5786002500 *5783032606	NUT, NYLON M2.6 WASHER, POLYSL. 3X6X0.5T SCREW, BIND M2X6 WASHER, E-RING E-2.5 (JIS) SCREW, BIND S-TITE M2.6X6		
2-76 2-77 2-78 2-79 2-80	*5800818500 *5783032005 *5785122600 *5783002004 *5786710100	WASHER, 19X3.2X0.2T SCREW, BIND S-TITE M2X5 WASHER, LOCK (EXT.) 2.6 SCREW, PAN S-TITE M2X4 CLIP, HARNESS 2.3X4X23.5	Addition	
2-81 2-82	*5783032604 *5785303100	SCREW, BIND S-TITE M2.6X4 WASHER, POLYSL. 3X6X0.25T		

### Continued from page 29

### EXPLODED VIEW-1 (R-9000)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
1-41 1-42 1-43 1-44	*5783763006 *5783753008 *5783033006 Vacant *5783034022	SCREW, BIND S-TITE M3X6	
I-46 I-47 I-48 I-49 I-50	*5785012400 *5783073006 *5783723008 *5781263008 *5783034016		

### EXPLODED VIEW - 3(R-9000)

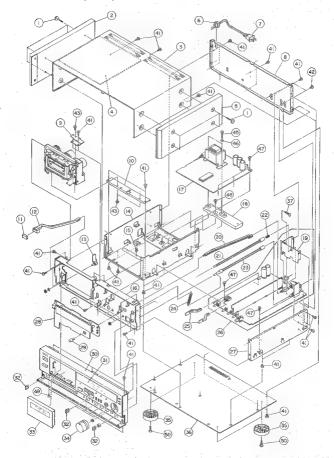


ŒF.	NO.	PARTS NO.	DESCRIPTION	REMARKS
5- I 5- 2 5- 3		5370009500 *5801008000	MOTOR, DC CAPSTAN MASHER, OIL PULLEY, CAPSTAN MOTOR	
5-4 3-5		5534537001 *5800732000	DAMPER BRACKET, FLYWHEEL	
5- 6 5- 7		*5801198100 5800732200	SHAFT (F), THRUST CAPSTAN ASSY (L)	
5 8 5 9 510		5534810000 5800732300	BELT, CAPSTAN	
5-11 5-12 5-13		5800732100 *5800235900	WASHER (A), TEFLON METAL HOLDER ASSY PLATE, SEALED	
5-14 5-15			C., CERAMIC 0.047MF/50V MOTOR, REEL DC .015 0.2	
5-16 5-17 5-18		5800461500	HOLDER, MOTOR PULLEY ARM ASSY GEAR, PULLEY (A)	
5–19 5–20		5800461600	GEAR PULLEY (B) ASSY SPRING, PULLEY	
5-21 5-22		5800430302 *5800731600	BRACKET, REEL ASSY	
5-23 5-24 5-25	4	5347003300 *5800731400 5800731501	COIL SHAFT ASSY RING, HYSTERESIS REEL TABLE ASSY	
5-26 3-27		5800231300 5800236501	SPRING, REEL RING, DRIVE	
3-28 5-29 5-30	1	5800419201 5370005100	MECHANISM CHASSIS ASSY BELT, CAM CONTROL MOTOR, DC RF-280R-10350	
5-31 5-32		5800597001 5800123301	PULLEY, REDUCTION!	
3-33 3-34 3-35		*5800732400 *5210152401 *5800595300	BRACKET, MOTOR CAM PCB PLATE, CONTACT	Ref. page 40
5-36 5-37		5800597401 *5800620701	CAM, CONTROL BASE ARM ASSY	
3-38 5-39		*5800732500 *5800620801	SPRING, DIRECTION CHANGE LEVER ASSY	
5-41 5-42		*5783002605	SCREW, PAN S-TITE M2.6X5 CLIP, HARNESS 3.0X9.1X50	
3-43 3-44 3-45		*5730033100 *5783002606	SCREW, WASHER HEAD M2.6X5-2 SCREW, PAN S-TITE M2.6X6 WASHER, POLYSL. I.5X4X0.5T	
5-46 5-47 5-48 5-49 5-50	r I	*5785331100	WASHER, E-RING E-2 (JIS)	
5-51 5-52 5-53 5-54 5-55		*5780002603 *5783032604 *5785024800 *5781112004 *5786010900	SCREW, BIND HEAD M2.6X3 SCREW, BIND S-TITE M2.6X4 WASHER, FLAT 4.3X8X0.BT SCREW, BIND TAP #2 M2X4 WASHER, E-RING E-2 (E-9)	

### INCLUDED ACCESSORIES (R-9000)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS	 
-	*5700118600 *57001(9300 *5700118700 *5744077300 *5350015700	OWNER'S MANUAL [US] OWNER'S MANUAL (EXCEPT J, US] REMOTE CONTROL UNIT + PC-366		
	*5347006900 *5347007000	BATTERY [J] BATTERY [EXCEPT J]		

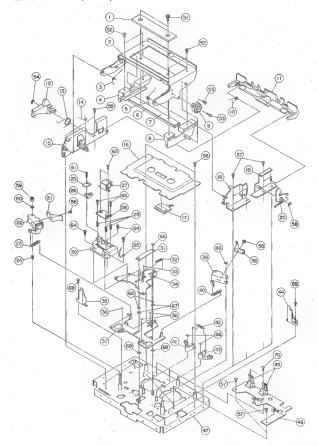
### EXPLODED VIEW - 4 (V-9000)



### EXPLODED VIEW-4 (Y-9000)

REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
4- i		SCREW ASSY, SIDE BOARD	· ·
4- 2	*580!353400	BOARD (L), SIDE	1
4-3	*5801342800	BONNET (G)	
4-4 4-5	*5801145700 *5801353500	SHEET (C), DUMPER BOARD (R), SIDE	
4- 5	-0001000	BOARD (K), SIDE	
4- 6	*5317003400	BUSHING 2271	
	△*5350015600 △*5350010700	CORD, AC [J] CORD, AC [US,C,GE] UL SPT-2	<b>i</b>
	△*5350011700	CORD, AC LEI CEE CLASS-2	
	△*5128047000	CORD, AC (UK) BS	
	△*5350008300	CORD, AC LAUSI ASS	
4- II	*5801342600	PANEL, REAR [EXCEPT GE]	
	*5801353300 *5801342100	PANEL, REAR IGE! HOLDER, MECHANISM (UPPER)	
4-9 4-10	*5801342200	HOLDER, MECHANISM (UNDER)	1
4-10	3001342200	TOCOCKY FLOWERS TO TOTAL	+ 1
4-11		CUP (G), POWER (TEAC/ESOTERIC)	
4.10	580 340500 *580 340400	CUP (B), POWER (TEAC)	
4-12 4-13	*5200305100	JOINT, POWER SWITCH PCB ASSY	Ref. pages 40 & 47
4-14	*5801343000	CHASSIS, MAIN	
4-15	*5787060700	SPACER, PUSH PS-7 A=11.11	1
4-16	*5801342900	CHASSIS, FRONT	1
4-17	*5200305200	CONTROL PCB ASSY [J]	Ref. pages 42 & 49
4.17	*5200305210	CONTROL PCB ASSY [US]	Ref. pages 42 & 49
	*5200305220		Ref. pages 42 & 49
	*5200305230		Ref. pages 42 & 49 Ref. pages 42 & 49
4-18	*5200305240 *5801341500	CONTROL PCB ASSY LUKI SPACER, TRANSFORMER	Nets pages 42 & 49
4-19	*5801342300	HOLDER, VOLUME	
4-20	*5801341300	ROD, KNOB (C)	
4-21	*5801356800	ROD (N), VR	
4-22	*5801362200	SPRING (2), EARTH	
4-23	*5801341600	ROD, VR	
4-24	*5801362100	SPRING (1), EARTH KNOB (G), JOINT (TEAC/ESOTERIC)	<b>1</b>
4-25	5801356500 5801341200		
			Bad 41 4 47
4-26 4-27	*5200304600 *5801342400	R/P AMP PCB ASSY SHASSIS (A), SIDE	Ref. pages 41 & 47
4-28	*5200305000		Ref. pages 42 & 50
4-29	5801356400	KNOB C (G) (TEAC/ESOTERIC)	
	5801341100	KNOB C (B) (TEAC)	
4-30	5801354801	FRONT PANEL V (G) ASSY (TEAC) FRONT PANEL V (B) ASSY (TEAC)	'
	5801338101	FRONT PANEL V (E) ASSY (ESOTERIC)	1
4-31	*5801341400	WINDOW, FL	
4-32	5801357000		
4-33	5801340900 5801343800	KNOB (B), SELECTOR (TEAC) CASSETTE RID (VBL) ASSY (TEAC)	
4-22	. 580   357200		1
4-34	5801356200	MASTER KNOB (G) ASSY (TEAC/ESOTERIC)	I
		MASTER KNOB (B) ASSY (TEAC)	
4-35	*5801343100	INSULATOR ASSY	
4-36	*5801342500	PLATE, BUTTOM	P
4-37	*5787060700		1
Continue	d on page 37		

### EXPLODED VIEW - 5(V-9000)



EXPLODED 1	11FM-2 (4-800	,	
REF. NO.	PARTS NO.	DESCRIPTION	REMARKS
5- 1 5- 2 5- 3 5- 4 5- 5	*5801345000	PLATE, TOP (BL) (TEAC) PLATE, TOP (G) (TEAC/ESOTERIC) CASSETTE HALDER ASSY SPRING (L), HOLDER HOLDER (L) SPRING (R), HOLDER	
5- 6 5- 7 5- 8 5- 9 5-10	*5801344200 *5801343500 *5801344700 5801354000 *5800755800	PAD (U) [J] PAD (S) [EXCEPT J] SPACER HOLDER (R) DUMPER, ICT2-L SPRING, PRESS ARM	
5-11 5-12 5-13 5-14 5-15	*5800595602 *5800768701 *5800616300 *5800616400 *5801345600	SPRING, EJECT PLATE PRESSURE	
5-16 5-17 5-18 5-19 5-20	*580!343701 5225025500 *580!346100 *580!345400 *580!344500	PANEL, CASSETTE LED, SLFGOLG (ORG) HOLDER BRACKET FLATE ASSY BRACKET (R) ASSY LEVER (R), LCCK	
5-21 5-22 5-23 5-24 5-25	*5800955700 *5800418400	GUIDE, TAPE PINCH ROLLER ARM ASSY (L) SPRING (L), PINCH ROLLER SPRING, PINCH ROLLER ARM COVER, ERASE HEAD	
5-26 5-27 5-28 5-29 5-30	5378905500 5378905800 *5801345900 *5800931300 *5800955900	HEAD, ÉRASE HEAD, REC./PLAY PLATE, HEAD SPRING, HEAD BRAKET, HEAD	
5-31 5-32 5-33 5-34 5-35	*5800595500 *5801005700 5540055000 *5800957200 5800595701	SPRING, PRESSURE SPRING, HEAD BASE STEEL BALL: 2 HEAD BASE ASSY GUIDE (L), CASSETTE	
5-36 5-37 5-38 5-39 5-40	5800618202 *5801346000	STEEL BALL 3 SLIDER ASSY TOMP PINOH ROLLER ARM ASSY (R) SPRING (R), PINOH ROLLER	
5-41 5-42 5-43 5-44 5-45	*5800620000 *5800737200 *5800619900 5800595801 5301754100 *5200182400	SPRING, LOCK BRAKE ARM (R) ASSY GUIDE (R), CASSETTE	Ref. pages 40 & 47
5-47		MECHANISM CHASSIS ASSY	

# EXPLODED VIEW-5 (V-9000)

REF. NO.	PARTS NO.	DESCRIPTION	-	REMARKS	
5-51 5-52 5-53 5-54 5-55	*5781713003 *5781162606 *5783032004 *5786003000 *5783032604	SCREW, B.T.#2 M2.6X6 (BLK NI)			
5-56 5-57 5-58 5-59 5-60	*5780022605 *5783002605 *5786003000 *5781952600 *5800978900	SCREW, PAN S-TITE M2.6X5 WASHER, E-RING E-3 (JIS) NUT, NAYLON M2.6			
5-61 5-62 5-63 5-64 5-65	*5780022008 *5782422004 *5780112008 *5780002005 *5786710300				
5-66 5-67 5-68 5-69 5-70	*5786002000 *5785303100 *5785313000 *5783032606 *5783032005	WASHER, E-RING E-2 (JIS) WASHER, POLYSL. 3X6X0.25T WASHER, POLYSL. 3X6X0.5T SCREW, BIND S-TITE M2.6X6 SCREW, BIND S-TITE M2X5			

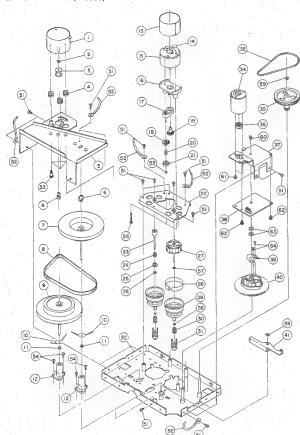
Continued from page 35

# EXPLODED VIEW-4 (V-9000)

REF. NO.	PARTS NO.	DESCRIPTION	4 4 L	REMARKS
4-41 4-42 4-43 4-44 4-45	*5783763006 *5783753008 *5783033006 Vacant *5783034022	SCREW, BIND B-TITE M3X6 (CU) SCREW, BIND P-TITE M3X8 (CU) SCREW, BIND S-TITE M3X6 SCREW, BIND S-TITE M4X22		
4-46 4-47 4-48 4-49 4-50	*5785012400 *5783073006 *5783723008 *5781263008 *5783034016	WASHER, FLAT 4.5X10X0.8T SCREW, CUP PAN S-TITE M3X6 SCREW, BIND B-TITE M3X8 SCREW, FLAT TAP (#2) M3X8 (BLK NI) SCREW, BIND S-TITE M4X16		

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# EXPLODED VIEW - 6(V-9000)



#### EXPLORED VIEW-6 (V-0000)

REF. NO.	PARTS NO.	DESCRIPTION		REMARKS
6- I 6- 2 6- 3 6- 4 6- 5	*5801008000	MOTOR, CAPSTAN DC SHL2 WASHER, OIL PULLEY, CM DANPER BRACKET, FLYWHEEL	<b>L</b>	
6- 6 6- 7 6- 8 6- 9 6-10	5534810000	CHAFT (F), THRUST CAPSTAN ASSY (L) BELT, CAPSTAN CAPSTAN ASSY (R) SPRING (U), THRUST		
6-11 6-12 6-13 6-14 6-15	5800732100 *5800235900	WASHER (A), TEFLON METAL HOLDER ASSY PLATE, SEALED C., CERAMIC 0.047MF/50 MOTOR, REEL DG .015 0.		
6-16 6-17 6-18 6-19 6-20	5800461500 5800736000	HOLDER, MOTOR PULLEY ARM ASSY GEAR, PULLEY (A). GEAR PULLEY (B) ASSY SPRING, PULLEY		
6-21 6-22 6-23 6-24 6-25	*5800917400 *5800481901	IDLER ASSY BRACKET, REEL ASSY REEL SHAFT ASSY SPRING, B. TENSION HOLDER, SPRING		
6-26 6-27 6-28 6-29 6-30		WASHER, TEPHLON 1.7X4X COIL SHAFT ASSY RING, HYSTERESIS REEL TABLE ASSY SPRING, REEL	0.3Τ	
6-31 6-32 6-33 6-34 6-35	5800236501 5800419201 5370005100 5800597001	RING, DRIVE MECHANISM CHASSIS ASSY BELT, CAM CONTROL MOTOR, DC RF-280R-1035 PULLEY, REDUCTION		
6-38	5800123301 *5800732400 *5210152401 *5800595300 5800597401	PULLEY, V BRACKET, MOTOR CAM POB PLATE, CONTACT CAM, CONTROL		Ref. pages 40
6-41	*5800620701	BASE ARM ASSY		

# EXPLODED VIEW-6 (V-9000)

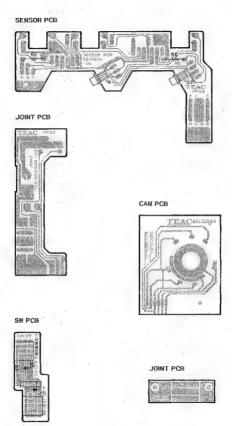
REF. NO.	PARTS NO.	DESCRIPTION	REWARKS	
6-51	*5783002605	SCREW, PAN S-TITE M2.6X5		
6-52	*5786713000	CLIP, HARNESS 3.0X9. [X50		
6-53	*5730033100	SCREW, WASHER HEAD M2.6X5-2		
6-54	*5783002606	SCREW, PAN S-TITE M2.6X6		
6-55	*5785331500	WASHER, POLIYSL. 1.5X4X0.5T		
6-56	*5780002617	SCREW, BIND M2.6X17	:	
6-57	*5785301100	WASHER, POLYSL, 1.5X4X0.25T	I	
6-58	*5785331100	WASHER, POLYSL, 1,2X3,6X0,5T		
6-59	*5786002000	WASHER, E-RING E-2 (JIS)		
6-60	*5780002004	SCREW, BIND M2X4		
6-61	*5780002603	SCREW, BIND HEAD M2.6X3		
6-62	*5783032604	SCREW, BIND S-TITE M2.6X4		
6-63	*5785024800	WASHER, FLAT 4,3X8X0.8T		
6-64	*5781112004	SCREW, B.TAPP.#2 M2X4	1	
			1	

### INCHIDED ACCESCIPLES (V-0000)

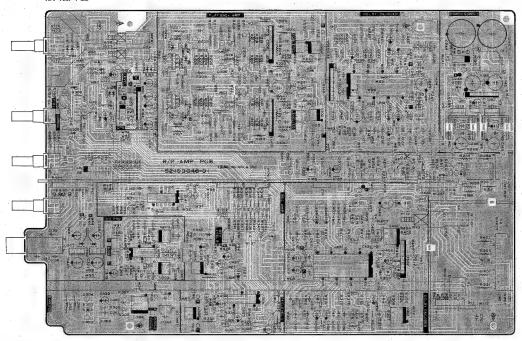
REF.	NO.	PARTS NO.	DESCRIPTION	REMARKS
		*5700118700 *5744077200	OWNER'S MANUAL [1] OWNER'S MANUAL [US] OWNER'S MANUAL [US] OWNER'S MANUAL [EXCEPT J, US] REMOTE COMINOL UNIT; RC-365 CORD, IN-OUT (RCA-RCA)	
		*5347006900 *5347007000	BATTERY [J] BATTERY (EXCEPT J)	

# **8 PC BOARDS AND PARTS LIST**

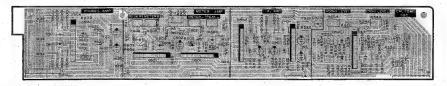
**基板図とパーツ・リスト** 



R/P AMP PCB



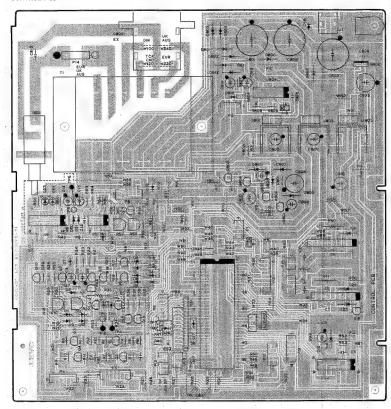
R/P SUB PCB



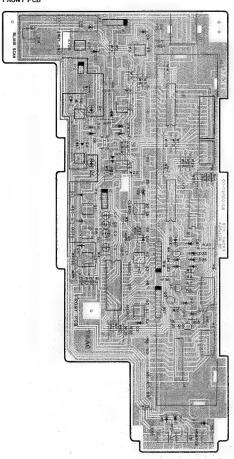
VR PCB



CONTROL PCB



FRONT PCB



# SENSOR PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200182400	SENSOR PCB ASSY
	*5210182400	SENSOR PCB
	5800735900	SPACER
0001,002	5228013100	PHOTO REFLEC., NJL5141EA-B

# SWITCH PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200305110	SWITCH PCB ASSY (R9000)
	*5210305100	SWITCH PCB
D001,002	5224015020	DIODE, ISSI33T-77
S001	5301206700	SWITCH.
		ROTARY SRBMI3 L=15 F=04
S002	5301206800	SWITCH,
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ROTARY SRBMI3 L=20 F=10

# R/P AMP PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200304610 *5210304601 5555590000 5800990100	R/P AMP PCB ASSY R/P AMP PCB PLATE (A), EARTH P.C.BOARD HEAT SINK
C101,201	5263301120	C., POLY. 150PF/100V J VT
C102,202	5263301320	C., POLY. 350PF/100V J VT
C106,206	5263291820	C., POLY. 0.047UF/100V J VT
C107,207	5263302120	C., POLY. 6800PF/63V J VT
C108,208	5263301720	C., POLY. 1500PF/100V J VT
C109,209	5263293320	C., POLY. 1.0UF/63V J VT
C110,210	5263293320	C., POLY. 1.0UF/63V J VT
C111,211	5263291320	C., POLY. 0.018UF/100V J VT
C112,212	5263302020	C., POLY. 4700FF/63V J VT
C113,213	52633291420	C., POLY. 0.022UF/100V J VT
C114,214	5260473320	C., ELEC. 100UF/16V M PZ VT
C115,215	5263293320	C., POLY. 1.0UF/65V J VT
C121,221	5263166923	C., METAL 0.015MF/50V J VT
C122,222	5263293320	C., POLY. 1.0UF/65V J VT
C124,224	5263167723	C., METAL 0.068UF/50V J VT
C125,225	5263167623	C., METAL 0.056UF/50V J VT
C126,226	5263293320	C., POLY. 1.0UF/65V J VT
C128,228	5263166723	C., METAL 0.010UF/50V J VT
C129,229	5260473320	C., ELEC. 100UF/16V M PZ VT
C131,231	5263291420	C., POLY. 0.022UF/100V J VT
C144,244	Δ5260476910	C., ELEC. 3300UF/25V M PZ VF
C145,245	Δ5260474010	C., ELEC. 220UF/25V M PZ VF
C148,248	5260473320	C., ELEC. 100UF/16V M PZ VT
C149,249	5263291420	C., POLY. 0.022UF/100V J VT
C302,402	5260480620	C., ELEC. 1UF/50V M PZBP VT

# R/P AMP PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
C303,403	5260480620	C., ELEC. 1UF/50Y M P2BP VT
C310,410	5263166923	C., METAL 0.015MF/50Y J VT
C311,411	5260480620	C., ELEC. 1UF/50V M P2BP VT
C313,413	5263167723	C., METAL 0.068UF/50Y J VT
C314,414	5263167623	C., METAL 0.056UF/50V J VT
C315,415	5260480620	C., ELEC. 18F/50V M PZBP VT
C317,417	5263166723	C., METAL 0.010UF/50V J VT
C318 C418	5260481220	C., ELEC. 10UF 16V M PZBP VT
C319 C419	5260481220	C., ELEC. 10UF 16V M PZBP VT
C320,420	5260473320	C., ELEC. 100UF/16V M PZ VT
C322	5260480620	C., ELEC. IUF 50V M PZBP VT
C324,424	5260472620	C., ELEC. 47UF/10V M PZ VT
C326 C426	5260481220	C., ELEC. 10UF 16V M PZBP VT
C327,427	5260473220	C., ELEC. 100UF/10V M PZ VT
C331,431	5263166723	C., MEYAL 0.010UF/50V J VT
C332,432	5263167523	C., METAL 0.047MF/50Y J VT
C333,433	5263167123	C., METAL 0.022UF/50Y J VT
C334,434	5263107220	C., POLY. 560PF/100Y J VT
C335,435	5263167523	C., METAL 0.047MF/50Y J VT
C336,436	5263106420	C., POLY. 270PF/100Y J
C337,437	5263105420	C., POLY. 100PF/100V J YT
C340	5263167123	C., METAL;0.022UF/50V J YT
C342	5263101320	C., POLY. 0.0022UF/100V J YT
D101,201	5225015820	LED., LTZ-MR15
D102,D202	5225015820	LED., LTZ-MR15
D103-115	5224015020	DIODE, ISSI33T-77
D116 &	5228010800	SILICON STACK, S2VBIO V870
D118-120	5224015020	DIODE, ISSI33T-77
D203	5224015020	DIODE, ISSI33T-77
J101	5330510700	JACK, PIN 2P
1102	5330014700	JACK, PIN 3P FJ332DAB-MA
1301	5330510600	JACK, PIN 4P
K101	5290013800	RELAY, DF2-DC12V
L301,302	5286031000	CO1L, CHOKE 220UH LALO4KB
L303,403	5286038400	CO1L, STEP-UP 210K
L304	5286038600	COIL, OSC 210KHZ
P4	5336249700	CONN., PLUG BO7B-PH-K-S WHT
P5	5336303400	CONN., PLUG B4B-EH WHT
P6	5336305400	CONN., PLUG B4B-EH-R RED
P7	5336303200	CONN., PLUG B4B-EH-WIT
0101,201	5232008600	FET., 25K389BL
0102-104	5230770100	TRANSISTOR 25C2240BL
0105,205	5145162000	TRANSISTOR 25A-970BL
0106,206	5145162000	TRANSISTOR 25A-970BL
0107-110	5230770100	TRANSISTOR 25C2240BL
0111,211	5145162000	TRANSISTOR 2SA-970BL
0112,212	5230780920	TRANSISTOR 2SC2603F
0113	5232008420	FET., 2SK38ID
0114,214	5232008420	FET., 2SK38ID
0115,215	5232008420	FET., 2SK38ID
0116 0117,119 0118 0120,123 0121,122	5232255720 5232254820 5232255720 5232254820 5232255720	TR., DIGITAL DYCI24ES TR., DIGITAL DTA124ES TR., DIGITAL DTCI24ES TR., DIGITAL DTA124ES TR., DIGITAL DTC124ES

# R-9000

# R/P AMP PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
Q124,130 Q125-127 Q128 Q129 Q131	5232255720 5232254820 △5231762800 △5230509700 5232254820	TR., DIGITAL DTC124ES TR., DIGITAL DTA124ES TRANSISTOR ZSD1913R TRANSISTOR ZSB1274R TR., DIGITAL DTA124ES
0202-204 0207-210 0301,401 0302 0303	5230770100 5230770100 5231762020 5232254820 5145085000	TRANSISTOR 25C2240BL TRANSISTOR 25C2240BL TRANSISTOR 25D1450S/T TR., DIGITAL DTA124ES TRANSISTOR 25A-934R
0304-306 0307,308 RI R3	5232255720 5230780920 5282416600 5282416800	TR., DIGITAL DTC124ES TRANSISTOR 25C2603F YOLUME, IS2U RK097 100KMN CC L=20 YOLUME, IS2U RK097 20KBX2 CC L=20
R4 R5	5282022400 5282416700	VOLUME, ISTU RKO97 5KB CC L=20 VOLUME,
R101,201 R102,202	5240571720	1520 RK097 20KAX2 L=20 R., ERDAIT 47K J R., ERDAIT 1.0K J
R103,203 R104,204 R105,205 R106,206 R107,207	5240569320 5240567720 5240564920 5240569120 5240566520	R., ERDAIT 4.7K J R., ERDAIT 1.0K J R., ERDAIT 68 J R., ERDAIT 1.5K J R., ERDAIT 330 J
R108,208 R109,209 R110,210 R111,211 R112,212	5240566520 5240567520 5240570120 5240567920 5240564120	R., ERDAIT 330 J R., ERDAIT 820 J R., ERDAIT 10K J R., ERDAIT 1.2K J R., ERDAIT 33 J
Ri 13,213 Ri 14,214 Ri 15,215 Ri 16,216 Ri 17,217	5240568720 5240568320 5240567920 5240564120 5240564120	R., ERDAIT 2.7K J R., ERDAIT 1.8K J R., ERDAIT 1.2K J R., ERDAIT 33 J R., ERDAIT 33 J
R118,218 R119,219 R120,220 R121,221 R122,222	5240572120 5240568720 5240567820 5240569220 5240569420	R., ERDAIT 68K J R., ERDAIT 2.7K J R., ERDAIT 1.1K J R., ERDAIT 4.3K J R., ERDAIT 5.1K J
R123,223 R124,224 R125,225 R126,226 R127,227	5240569520 5240572920 5240572920 5240568720 5240568720	R., ERDAIT 2.7K J
R129,229 R130,230 R155,255 R156,256 R160	5280021300 5280021700 5240569320 5240566920 5280021700	R., TRIMMER LOKE H. R., TRIMMER, 47KE H. R., ERDAIT 4.7K J. R., ERDAIT 4.7K J. R., TRIMMER, 47KE H.
R184 R185 R186,286 R188,288 R301,401	5241459420 5241461020 5240566920	R., METAL 15K F R., METAL 3.3K F R., METAL 15K F R., ERDAIT 470 J R., ERDAIT 18K J

# R/P AMP PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
R327 A27	5240570720 5240570120 5280021300 5240568320 5280021500	R., ERDAIT 18K J R., ERDAIT 10K J R., TRIMMER 10KB H R., ERDAIT 1.8K J R., TRIMMER 22KB H
R361 R364,464 S1	5301206800	R., TRIMMER IOKB H. R., TRIMMER IOKB H. SWITCH, ROTARY SRBMI3 L=20 F=10
		SWITCH, PUSH SPUP 2-2 NS SWITCH, PUSH SPUL 2-2 NS
TPI-10 U101,201 U102,202 U103,302 U104,303	5286038800 5220439500	PIN, OH CHECK IPS-1136 IC., UPC4570HA COIL, TRAP 210KHZ IC., UPC4570HA IC., CX20188
U106	5220426200 5220092400 5220425800 5292805600 5220439700	IC., M51143AL (C., D1G1TAL BU4052B IC., M523OLA FILTER, LOWPASS MPX IC., CXA1198AP
U305,405 U306 U307 U308	5220434500 5220435400	COIL, TRAP 210KHZ IC., MSF7807L IC., MSF7907L IC., UPC1297CA,

## R/P SUB PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
C501,601 C502 C503	*5200304700 *5210304700 5260481220 5260461520 5260462620	R/P SUB PCB ASSY R/P SUB PCB C., ELEC. IOUF/16V M PZBP C., ELEC. 1OUF/25V II AU C., ELEC. 47UF/16V H AU
C504	5263166923	C., METAL 0.015MF/50V J
C506	5260463020	C., ELEC. 100UF/10V M AU
C509	5260463020	C., ELEC. 100UF/10V M AU
C510	5260462620	C., ELEC. 47UF/16V M AU
C511,611	5260480620	C., ELEC. 1UF/50V M PZBP
C512,612	5263167923	C., METAL 0,1MF/50V J
C513,613	5260472720	C., ELEC. 47UF/16V M PZ
C514,517	5263166723	C., METAL 0.010UF/50V J
C518,519	5263167223	C., METAL 0.027UF/50V J
C520	5260481220	C., ELEC. 10UF/16V M PZBP
0501-0505	5224015020	DIODE, ISSI33T-77
0601	5224015020	DIODE, ISSI33T-77
P8	5336291500	CONN., PLUG. S5B-PH-K-R RE
P9	5336156900	CONN., PLUG. 9P
P10	5336156400	CONN., PLUG. 4P
PII	5336156400	CONN., PLUG. 4P
PI2	5336302100	CONN., PLUG. 11P 9059
Q501,Q503	5232008420	FET., 2SK381D
Q502,Q504	5230780920	TRANSISTOR 2SC2603F
R505,605	5280036300	R., TRIMMER 10KB
R508,608	5280036700	R., TRIMMER 47KB
R533,633	5240563920	R., 27 J ERDAIT
R543,554	5280036300	R., TRIMMER 10KB
TP11-12	5317002100	PIN, DH CHECK 1PS-1136
U501-U503	5220439500	IC., UPC4570HA
U504	5220438700	IC., LA6510
U505,U601	5220439500	IC., UPC4570HA

# VR PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200304800	VR PCB SSY
	*5210304800	VR PCB
PIO	5336156700	CONN., PLUG. 7P
R2	5282416500	VOLUME,

# CONTROL PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200305250 *5200305260	CONTROL PCB ASSY [US]
*	*5200305270 *5200305280	CONTROL PCB ASSY [GE1
	*5200305280 *5200305290	
	*5210305200	
	*5555590000 *5800990100	PLATE (A), EARTH; PCB HEATSINK
	*5730007500	
CII	5263166723	C., METAL 0.010UF 50V J VT
	Δ*5260428210	
C806	∆5260428210 ∆5260425510	C., ELEC. 4700/50V C., ELEC. 330UF/50V M AS
C812	∆5267703800	
0072		4700PF/400V
DI-14	5224015020	DICOE, ISS133T77
D15 D16	5224575701	DIODE, ZENER RDIJEL2 DIODE, ZENER HZ2BLL
D17 31	5224581200 5224015020	DIODE, ZENER HZZBLL DIODE, ISSI33T77
D22,23	5225015820	LED., LTZ-MRI5
024 025	5224573801	DIODE, ZENER RD6.2EL2
025 026	5224572101 5224015020	DIODE, ZENER RD3.6ELI DIODE, ISSI33T77
	△5224013020	DIODE, 188133177
0808,813	∆5224015020	0100E, 188133T77
D809 D810	5224579401	DIODE, ZENER RD33ELI
D811,812	5224574701 5224012920	DIODE, ZENER RD8.2EL2 DIODE, 1S2473
11	5330015100	1ACK 18 VKB21-8120
PI	5336249400	DIODE, 182473 JACK, 1P YKB21-5129 CONN., PLUG BO4B-PH-K-S WHT
P2 P3 P4 P5 P6	5336249800	CONN., PLUG BOBB-PH-K-S WHT
PA:	5336309400 5336249600	CONN., PLUG B4B-EH-K BLK CONN., PLUG B06B-PH-K-S WHT
P5	5336249700	CONN. PING BOOK-PH-K-S WHI
P6	5336251600	CONN., PLUG BO7B-PH-K-S WHT CONN., PLUG BO6B-PH-K-R RED
	5336251400	CONN., PLUG BO4B-PH-K-R RED
P8 :	5336255600 5336253600	CONN., PLUG BO6B-PH-K-K BLK
P10	5336253500	CONN., PLUG BOSB-PH-K-Y YEL CONN., PLUG BOSB-PH-K-Y YEL
PII	5336250000	CONN., PLUG BIOB-PH-K-S WHT
212	5336249500	CONN., PLUG BO5B-PH-K-S WHT
15	5336249300 5336249200	CONN., PLUG BO3B-PH-K-S WHT
01-5	5230780920	CONN., PLUG BO2B-PH-K-2 WHT TRANSISTOR, 2SC2603F
)1-5 )6-8	5232255720	TR., DIGITAL DTC124ES
09 010 011-15	5230780920	TRANSISTOR, 25C2603F
)  U 	5230018920 5231761300	TRANSISTOR, 2SAIII5F
)17	5230780920	TRANSISTOR, 2SD734F TRANSISTOR, 2SC2603F
16	5232255720	TR., DEGITAL DICI24ES
801 802 803.804	5145085000	TRANSISTOR, 2SA934R
802 803,804	5230780920 5232254820	TRANSISTOR, 25C2603F
31,32	5280021500	TRANSISTOR, 25C2603F TR., DEGITAL DTA124ES R., TRIMMER 22KB R., INCOM. 33 1W J

# R-9000

# CONTROL PCB ASSY (R-9000)

REF.NO.	PARTS NO.	DESCRIPTION
R40	∆ 5241182910	R., INCOM. 4.7 IW J
R41	A5241215510	R. INCOM. 10 IW J
R51	5242123900	
R57	5280021700	R., TRIMMER 47KB H.
R59	5280021700 5280021900	R., TRIMMER 100KB
S801	△5300054700	SWITCH, PUSH SDDLDI I-I
S802	∆5332027700	SWITCH, VOLTAGE SELECTOR I=4 ES90BF [GE]
TI	A 5320058800	TRANSFORMER, POWER
TPI-2	5317002100	
TP3-7	5317002100	
u I	5220818600	IC., UCOM, UPD75108CWB23
	5220427800	
114	5220091000	IC., DIGITAL LC7910
115	5220091000 5220438500	IC., UPC358C
U6	5220040300	IC., DIGITAL M4069UBP
U803	△5220434400	IC., M5F7805L
	△5220439800	IC., L78LR05
	△5220434700	1C., M5F7810L
U804	5220051800	IC., DIGITAL TC74HC04P
VI.	5220051800 5347012000	OSC., CERAMIC CST 4,19MGW

### FRONT DOD ACCV /D-0000

REF.NO.	PARTS NO.	DESCRIPTION
	*5200305010 *5210305000 5801342000 5260212950 5260212450	FRONT PCB ASSY FRONT PCB HOLDER, FL C., ELEC. 22UF/10V M SRA VT C., ELEC. 10UF/25V M SRA VT
0001,002	12907113 5225024800 5730034000 5224015020 5224015020	C, CC 22000PF/25V Z LED., SLP-481C-51 (YEW) SPACER, LS-15 D100E, ISS133T-77 D10DE, ISS133T-77
FL001 P004 P005 P006 P007	5336289500	DISPLAY, FL CONN., PLUG S7B-PH-K-S WHT CONN., PLUG S6B-PH-K-Y YEL CONN., PLUG S6B-PH-K-Y YEL CONN., PLUG S10B-PH-K-S WHT
0001,003 0002 0004 R017,018	5232255720	TR.,DIGITAL DTAI24ES TR.,DIGITAL DTC124ES TR.,DIGITAL DTC124ES R., ALLEY RYLS-8J104
\$001-016 U001 U002-004	5302103200 5292209500 5232253300	SWITCH, TACT KHH10910 MODULE, REMOCON SBX1483-52 TR., ARRAY LB1240
U005 U006	5220443400 5220051600	IC., BA6800AS IC., TC74HC00P

# SENSOR PCB ASSY (V-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200182400	SENSOR PCB ASSY
	*5210182400	SENSOR PCB
0001,002	5228013100	PHOTO REFLEC., NJL5141EA-B

# SWITCH PCB ASSY (Y-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200305100	SWITCH PCB ASSY
	*5210305100	SWITCH PCB
D)	5224015020	D10DE, ISS133T-77
Si	5301206700	SWITCH
		ROTARY SRBMI3 L=15 F=04

### R/P AMP PCB ASSY (Y-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200304600 *5210304600 *5555590000 *5800990100	R/P AMP PCB ASSY R/P AMP PCB PLATE (A), EARTH P.C. BOARD HEAT SINK
C101,201	5263301120	C., POLY. 150PF/100V J YT
C102,202	5263301320	C., POLY. 330PF/100V J YT
C106,206	5263291820	C., POLY. 0.047UF/100V J YT
C107,207	5263302120	C., POLY. 6800PF/63V J YT
C108,208	5263301720	C., POLY. 1500PF/100V J YT
C109,209	5263293320	C., POLY. 1.0UF/63V J YT
C110,210	5263293320	C., POLY. 1.0UF/63V J YT
C111,211	5263291320	C., POLY. 0.018UF/100V J YT
C112,212	5263302020	C., POLY. 4700PF/63V J YT
C113,213	52633291420	C., POLY. 0.022UF/100V J YT
C114,214	5260473320	C., ELEC. 100UF/16Y M PZ VT
C115,215	5263293320	C., POLY. 1.0UF/63V J VT
C121,221	5263166923	C., METAL 0.015MF/50V J VT
C122,222	5263293320	C., POLY. 1.0UF/63V J VT
C124,224	5263167723	C., METAL 0.068UF/50V J VT
C125,225	5263167623	C., METAL 0.056UF/50V J VT
C126,226	5263293320	C., POLY. 1.0UF/63V J VT
C128,228	5263166723	C., METAL 0.010UF/50V J VT
C129,229	5260473320	C., ELEC. 100UF/16V M PZ VT
C131,231	5263291420	C., POLY. 0.022UF/100V J VT
C144,244	∆5260476910	C., ELEC. 3300UF/25V M PZ VF
C145,245	∆5260474010	C., ELEC. 220UF/25V M PZ VF
G148,248	5260473320	C., ELEC. 100UF/16V M PZ VT
C149,249	5263291420	C., POLY, 0.022UF/100V J VT
C302,402	5260480620	C., ELEC. 1UF/50V M PZBP VT
C303,403	5260480620	C., ELEC. 1UF/50V M PZBP VT
C310,410	5263166923	C., METAL 0.015MF/50V J VT
C311,411	5260480620	C., ELEC. 1UF/50V M PZBP VT
C313,413	5263167723	C., METAL 0.068UF/50V J VT
C314,414	5263167623	C., METAL 0.056UF/50V J VT

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# R/P AMP PCB ASSY (V-9000)

REF.NO.	PARTS NO.	DESCRIPTION
C315,415	5260480620	C., ELEC. 1UF/50Y M PZBP VT
C317,417	5263166723	C., METAL 0.010UF/50Y J YT
C318 C418	5260481220	C., ELEC. 10UF 16Y M PZBP VT
C319 C419	5260481220	C., ELEC. 10UF 16Y M PZBP VT
C320,420	5260473320	C., ELEC. 100UF/16Y M PZ VT
C322	5260480620	C., ELEC. 1UF 50Y M PZBP VT
C324,424	5260472620	C., ELEC. 47UF/10Y M PZ VT
C326 C426	5260481220	C., ELEC. 10UF 16V M PZBP VT
C327,427	5260473220	C., ELEC. 100UF/10V M PZ VT
C331,431	5263166723	C., METAL 0.010UF/50V J VT
C332,432	5263167523	C., METAL 0.047MF/50V J VT
C333,433	5263167123	C., METAL 0.022UF/50V J VT
C334,434	5263107220	C., POLY. 560PF/100V J VT
C535,435	5263167523	C., METAL 0.047MF/50V J VT
C336,436	5263106420	C., POLY. 270PF/100V J
C537,437	5263105420	C., POLY. 100PF/100V J YT
C340	5263167123	C., METAL;0.022UF/50V J YT
C342	5263101320	C., POLY. 0.0022UF/100V J VT
D101,201	5225015820	LED, LTZ-MR15
D102,D202	5225015820	LED, LTZ-MR15
D103-115	5224015020	0100E, ISS133T-77
D116	5228010800	SILICON STACK, S2VB10 V870
D118	5224015020	0100E, ISS133T-77
D203	5224015020	D100E, ISS133T-77
J101	5330510700	JACK, PIN 2P
J102 J301 K101 L301,302 L303,403	5330014700 5330510600 5290013800 5286031000 5286038400	JACK, PIN 3P FJ332DAB-MA - JACK, PIN 4P - RELAY, DF2-DC12V CO11, CHOKE 220UH LAL04KB CO1L, STEP-UP 210K
L304	5286038600	COIL, OSC 210KHZ
P4	5336249700	CONN., PLUG B07B-PH-K-S WHT
P5	5336303400	CONN., PLUG B4B-EH WHT
P6	5336305400	CONN., PLUG B4B-EH-R RED
P7	5336303200	CONN., PLUG B4B-EH-R RED
0101,201	5232008600	FET., 2SK389BL
0102-104	5230770100	TRANSISTOR 2SC2240BL
0105,205	5145162000	TRANSISTOR 2SA-970BL
0106,206	5145162000	TRANSISTOR 2SA-970BL
0107-110	5230770100	TRANSISTOR 2SC2240BL
Q111,211	5145162000	TRANSISTOR 2SA-970BL
Q112,212	5230780920	TRANSISTOR 2SC2603F
Q113	5232008420	FET., 2SK381D
Q114,214	5232008420	FET., 2SK381D
Q115,215	5232008420	FET., 2SK381D
0116 0117-119 0120,123 0121,122 0124,130	5232255720 5232254820 5232254820 5232255720 5232255720	TR., DIGITAL DTC124ES TR., DIGITAL DTA124ES TR., DIGITAL DTA124ES TR., DIGITAL DTC124ES TR., DIGITAL DTC124ES
	5232254820 5231762800 5230509700 5232254820 5230770100	TR., DIGITAL DTAI24ES TRANSISTOR 2501913R TRANSISTOR 2581274R TR., DIGITAL DTAI24ES TRANSISTOR 25C2240BL

# R/P AMP PCB ASSY (Y-9000)

REF.NO.	PARTS NO.	DESCRIPTION
0207-210 0301,401 0302 0303 0304-306	5230770100 5231762020 5232254820 5145085000 5232255720	TRANSISTOR 2SC2240BL TRANSISTOR 25D1450S/T TR., DIGITAL DTA124ES TRANSISTOR 2SA-934R TR., DIGITAL DTC124ES
0307,308 Ri	5230780920 5282416600	TRANSISTOR: 2SC2603F VOLUME, 1S2U RK097 100KMN CC L=20
RI01,201 RI02,202	5240571720 5240567720	R., ERDAIT 1.0K J
R103,203 R104,204 R105,205 R106,206 R107,207	5240569320 5240567720- 5240564920 5240568120 5240566520	R., ERDAIT 4.7K J R., ERDAIT 1.0K J R., ERDAIT 68 J R., ERDAIT 1.5K J R., ERDAIT 330 J
R108,208 R109,209 R110,210 R111,211 R112,212	5240566520 5240567520 5240570120 5240567920 5240564120	R., ERDAIT 330 J R., ERDAIT 820 J R., ERDAIT 10K J R., ERDAIT 1.2K J R., ERDAIT 33 J
RII3,213 RII4,214 RII5,215 RII6,216 RII7,217	5240567920	R., ERDAIT 2.7K J R., ERDAIT 1.8K J R., ERDAIT 1.2K J R., ERDAIT 33 J R., ERDAIT 33 J
RI18,218 RI19,219 RI20,220 RI21,221 R122,222	5240572120 5240568720 5240567820 5240569220 5240569420	R., ERDAIT 68K J R., ERDAIT 2.7K J R., ERDAIT 1.1K J R., ERDAIT 4.3K J R., ERDAIT 5.1K J
R123,223 R124,224 R125,225 R126,226 R127,227	5240569520 5240572920 5240572920 5240568720 5240568720	R., ERDAIT 5.6K J R., ERDAIT 150K J R., ERDAIT 150K J R., ERDAIT 2.7K J R., ERDAIT 2.7K J
R129,229 R130,230 R155,255 R156,256 R160 R184	5280021300 5280021700 5240569320 5240566920 5280021700 5241461020	R., TRIMMER IOKB H. R., TRIMMER,47KB H. R., ERDAIT 47K J R., ERDAIT 470 J R., TRIMMER,47KB H. R., METAL 15K F
R185 R186,286 R188,288 R3	5241459420 5241461020 5240566920 5282416800	R, METAL 3.3K F R., METAL 15K F R., ERDAIT 470 J VOLUME, 152U RKO97 20KBX2 CC L=20
R301,401	5240570720	R., ERDAIT 18K J
R302,402 R327,427 R330,430 R332,R432 R360	5240570720 5240570120 5280021300 5240568320 5280021500	R., ERDAIT 18K J R., ERDAIT 10K J R., TRIMMER 10KB H. R., ERDAIT 1.5K J R., TRIMMER 22KB H.
R361 R364,464 R4	5280021300 5280021300 5282022400	R., TRIMMER LOKE H. R., TRIMMER LOKE H. VOLUME, ISTU RKO97 5KB CC L=20
R5	5282416700	VOLUME, 152U RK097 20KAX2 L=20
SI	5301206800	SWITCH, ROTARY SREMI3 L=20 F=10

# R/P AMP PCB ASSY (Y-9000)

REF.NO.	PARTS NO.	DESCRIPTION
TP1-10 U101,201	5300054600 5300054500 5317002100 5220439500 5286038800	SWITCH, PUSH SPUP 2-2 NS SWITCH, PUSH SPUL 2-2 NS PIN, OH CHECK IPS-1136 1C., UPC4570HA COLL, TRAP 210KHZ
U104,303 U105 U106	5220439500 5220443300 5220426200 5220092400 5220425800	IC., UPC4570HA IC., CX201B8 IC., M51145AL IC., DIGITAL BU4052B IC., M5230LA
U304 U305,405 U306	5292805600 5220439700 5286038800 5220434500 5220435400	FILTER, LOWPASS MPX IC., CXAII98AP COIL, TRAP 210KHZ IC., M5F7807L IC., M5F7907L
U <b>308</b>	5220430400	IC., UPCI297CA,

[J]:JAPAN [US]:U.S.A. [C]:CANADA [E]:EUROPE [GE]:GENERAL\_EXPORT

## R/P SUB PCB ASSY (Y-9000)

REF.NO.	PARTS NO.	DESCRIPTION
	*5200304700	R/P SUB PCB ASSY
	*5210304700	R/P SUB PCB
C501,601	5260481220	C., 10UF/16V M PZBP VT
C504	5263166923	C., METAL 0.015MF/50V J VT
C511,611	5260480620	C., IUF/50V M PZBP VT
C512,612	5263167923	C., METAL O.IMF/50V J VT
C513,613	5260472720	C., 47UF/16V M PZ VT
C514,517	5263166723	C., METAL 0.010UF/50V J VT
C518,519	5263167223	C., METAL 0.027UF/50V J VT
C520	5260481220	C., IOUF/IGV M PZEP VT
D501-505	5224015020	DIGDE, ISSI33T-77
D601	5224015020	DIODE, 1\$\$133T-77
P8	5336291500	CONN., PLUG S5B-PH-K-R RED
P9	5336156900	CONN., PLUG 9P
P10,11	5336156400	CONN., PLUG 4P
Pl2	5336302100	CONN., PLUG 1 IP 9059
Q501,503	5232008420	FET., 25K381D
Q502,504	5230780920	TRANSISTOR 2SC2603F
R505,605	5280036300	R., TRIMMER TOKB
R508,608	5280036700	R., TRIMMER 47KB
R533,633	5240563920	R., 27 J ERDAIT
R543,554	5280036300	R., TRIMMER LOKB
TPII.12	5317002100	PIN, DH CHECK IPS-1136
U501,601	5220439500	IC., UPC4570HA
U502,503	5220439500	IC., UPC4570HA
U504	5220438700	IC., LA6510
U505	5220439500	1C., UPC4570HA

# VR PCB ASSY (V-9000)

0304800 0304800 66156700 82416500	VR PCB ASSY VR PCB CONN., PLUG 7P VOLUME, 15ZU RK181 50KX2 L=20
	0304800

# CONTROL PCB ASSY (V-9000)

REF.NO.	PARTS NO.	DESCRIPTION
-	*5200305200 *5200305210	CONTROL PCB ASSY [J] CONTROL PCB ASSY [US] CONTROL PCB ASSY [GE] CONTROL PCB ASSY [E]
	*5200305220	CONTROL PUB ASSY IGET
	*5200305230	CONTROL PCB ASSY [LK]
	~5200305240	CONTROL POS ASST TORT
	*5210305200	CONTROL PCB
	*5800990100	PLATE (A), EARTH; PCB HEAT SINK
	5730007500	COVER CAPACITOR CR. 1417
06,8	12908842	COVER, CAPASITOR SB-1417 C., CC 0.1UF/50V Z
CII	5263166723	C., METAL O.DIOUF 50V J VT
0801,803	△*5260428210	C., ELEC. 4700/50V C., ELEC. 4700/50V C., ELEC. 330UF/50V M AS
0806	△5260428210	C., ELEC. 4700/50V
C808	△5260425510	C., ELEC. 330UF/50V M AS
C812	△5267703800	G., SPARK KIL. 4700PF/400V
D1,3 D5-10	5224015020	D100E, 199133T-77
D13	5224015020	DIODE, 199133T-77
D15	5224013020	DIODE, ISSI33T-77 DIODE, ISSI33T-77 DIODE, ZENER RDIIEL2
016	5224581200	DIODE, ZENER HZZBLL
018,19	5224015020	DIODE, ISSI33T-77 DIODE, ZENER RD6.2EL2 DIODE, ZENER RD3.6ELI DIODE, DS135D FA4
024	5224573801	DIODE, ZENER RD6.2EL2
D25	5224572101	DIODE, ZENER RO3.6ELI
D801-807	∆5224013210	DIODE, DSI35D FA4
0808,813	<b>Д5224015020</b>	D100E, ISS133T-77
D809 . D810	5224579401 5224574701	DIODE, ZENER ROSSELI
D811,812	5224012920	D10DE, ZENER RD8,2EL2 D10DE, 1S2473
11	5330015100	D10DE, 1S2473 JACK, IP YKB21-5129
ΡĪ	5336249400	CONN., PLUG BO4B-PH-K-S WHT
P2	5336249800	CONN., PLUG BOSB-PH-K-S WHT
P3	5336309400	CONN., PLUG B4B-EH-K BLK
P4 P5	5336249600 5336249700	CONN., PLUG BO6B-PH-K-S WHT CONN., PLUG BO7B-PH-K-S WHT
P6	5336251600	CONN., PLUG BO6B-PH-K-R REC
P7	5336251400	CONN., PLUG BO4B-PH-K-R RED
P8	5336255600	CONN., PLUG BO6B-PH-K-K BLK
P9	5336253600	CONN., PLUG BO6B-PH-K-Y YEL
P10	5336253500	CONN., PLUG BOSB-PH-K-Y YEL
PII .	5336250000	CONN., PLUG BIOB-PH-K-S WHI
P12 ·	5336249300	CONN., PLUG BO3B-PH-K-S WHT
P15	5336249200	CONN., PLUG BO2B-PH-K-S WHT
01-5	5230780920	TRANSISTOR 2SC2603F
06-8 09	5232255720 5230780920	TR., DIGITAL DTC124ES TRANSISTOR 2SC2603F
010	5230018920	TRANSISTOR 2SAI115F
Q11,12	5231761300	TRANSISTOR 2SD734F
016	5232255720	TR., DIGITAL DTC124ES
1080	△5145085000	TRANSISTOR 2SA934R
0802	5230780920	TRANSISTOR 2SC2603F
0803	5232254820	TR., DIGITAL DTAIZES
0804	5232255720	TR., DIGITAL DTC124ES R., TRIMMER 22KB H.
R31 R35	5280021500 A5241217510	R., TRIMMER 22KB H. R., INCOM. 68 W J
עכא		R., INCOM. 4.7 IW J
R40	△5241182910	

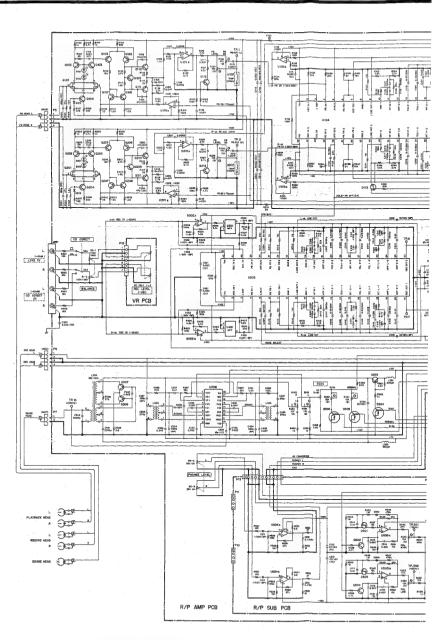
# V-9000

#### CONTROL POR ASSY (N=9000)

REF.NO.	PARTS NO.	DESCRIPTION
R41	A:5241215510	R., INCOM. 30 IW J
R51	5242123900	R., ALLAY RYLS-15J223
5801	₼5300054700	SWICH, PUSH SODLDI I-I
\$802	5332027700	SWITCH, VOLTAGE SELECTOR 1-4 F\$908
TI	∆5320058800	TRANSFORMER, POWER
TPI-2	5317002100	PIN, DH CHECK 1PS-1136
ÜI	5220818600	1C., UCOM, UP075108CW-B23
U2,3	5220427800	IC., BA6209
U4	5220091000	IC., DIGITAL LC7910
11801	△5220434400	IC. M5F7805L
	Δ5220439800	1C., L78LR05
	Ф5220434700	1C., M5F7810L
		1C., TC74HC04P
XI	5220051800 5347012000	OSC., CERAMIC CST 4,19MGW

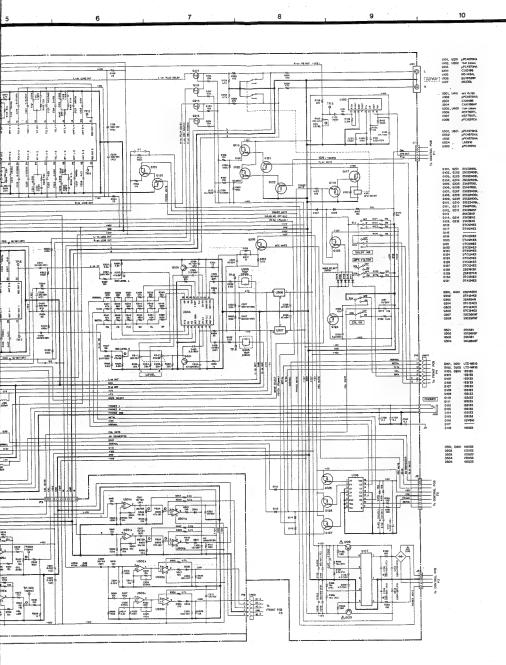
#### FRONT PCB ASSY (Y-9000)

REF.NO.	PARTS NO.	DESCRIPTION
CI D3-8	*5200305000 *5210305000 5263166923 5224015020	FRONT PCB C., METAL 0.015MF/50V J VT
D17-26 FL1 P4 P5	5224015020 5347016900 5336287700 5336269600	DIODE, ISS133T-77 DIODE, ISS133T-77 DISPLAY, FL CONN., PLUG S7B-PH-K-S WHT CONN., PLUG S6B-PH-K-Y YEL
P6	5336289500	CONN., PLUG S5B-PH-K-Y YEL
P7	5336288000	CONN., PLUG S10B-PH-K-S WHI
Q1,3	5232254820	TR., DIGITAL DTA124ES
Q2,4	5232255720	TR., DIGITAL DTC124ES
R17,18	5242125800	R., ARRY RYLS-8J104
SI-6	5302103200	SWITCH, TACT KHH10910
S8,13	5302103200	SWITCH, TACT KHH10910
SI5,16	5302103200	SWITCH, TACT KHH10910
UI	5292209500	MODULE, REMOCON SBX1483-52
U2	5232253300	TR., ARRAY LB1240
U3	5232253300	TR., ARRAY LB1240
U4	5232253300	TR., ARRAY LB1240
U5	5220443400	IC., BA6800AS
U6	5220051600	IC., TC74HC00P



INSTRUCTIONS FOR SERVICE PERSONNEL
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGECURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED
PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

- Capacitor values are in microfarads (p=picofarads). △ Parts marked with this sign are safety critical com
- They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.



抵抗の単位はQ(k=kQ, M=MQ)です。

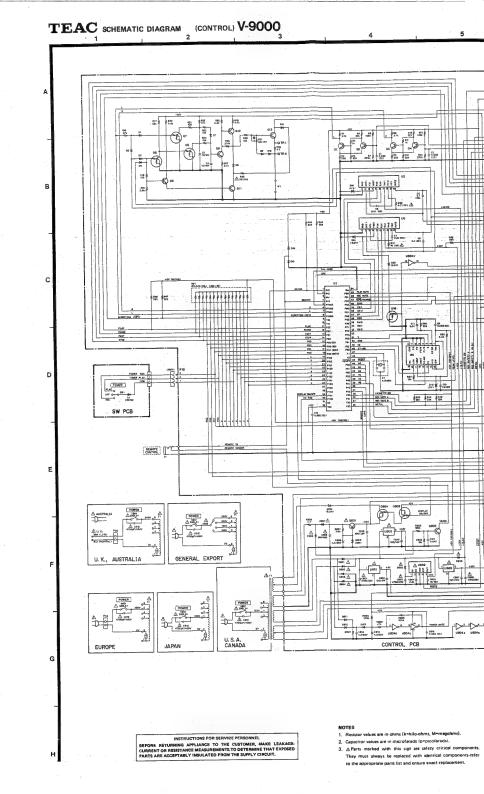
2. コンテンサの単位は $\mu$ F $\{p=pF\}$ です。

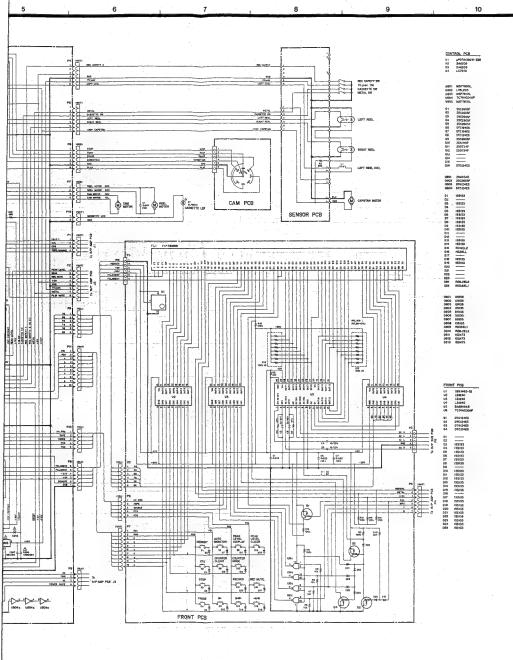
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Δマークのある部品は安全重要部品です。
 交換するときは必すティアック指定の部品を使用してくたさい。

V-9000

Stereo Cassette Deck



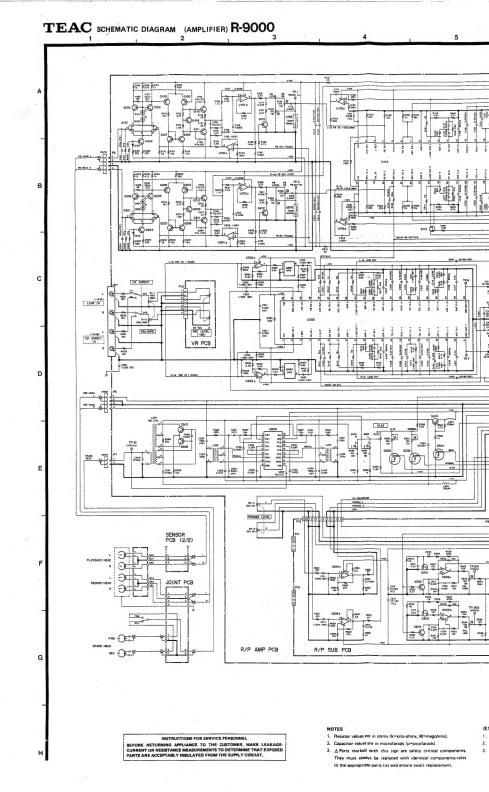


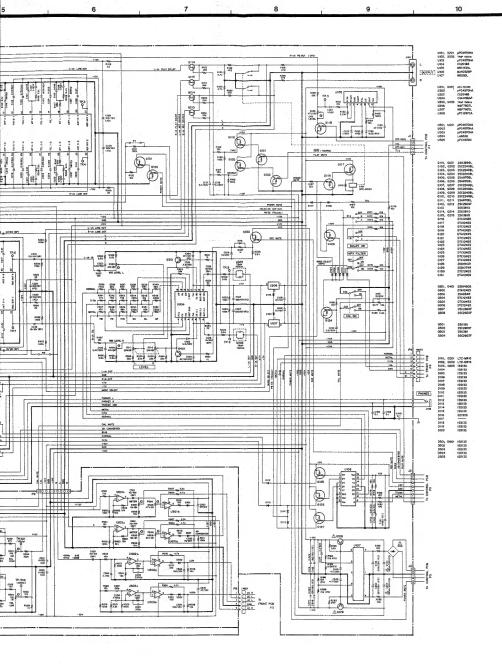
抵抗の単位は♀(k=k♀, M=M♀)です。

コンテンサの単位はμF(p=pF)です。
 ムマークのある部品は安全重要部品です。

交換するときは必ずティアック指定の部品を使用 してくたさい. V-9000

Stereo Cassette Deck



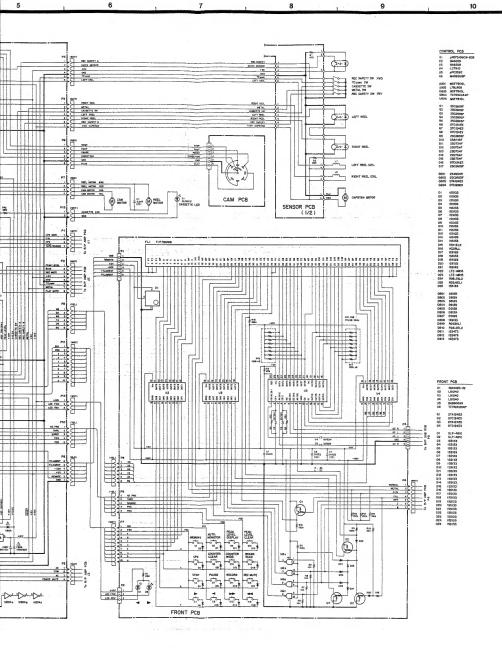


抵抗の単位は9(k=k0、M=M9)です。
 コンテンサの単位はµF(p=pF)です。
 ムマークのある部品は安全養要部品です。 交換するとさは全すティアック指定の部品を使用 してください。

INSTRUCTIONS FOR SERVICE PERSONNEL
BEPORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGECURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED
PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

- 2. Capacitor values are in microfarads (p=picofarads).
- They must always be replaced with identical components-refe to the appropriate parts list and ensure exact replacement,





5

抵抗の単位は Q (k = k Q, M = M Q)です。

してくたさい。

コンデンサの単位は $\mu$ F(p = pF)です。  $\Delta$ マークのある部品は安全重要部品です 交換するときは必ずティアック指定の部品を使用 R-9000

Stereo Cassette Deck